DIRECTORY OF AEROSPACE SAFETY
SPECIALIZED INFORMATION SOURCES

by Eleanor A. Fullerton
Linda S. Rubens
System Development Corporation
5827 Columbia Pike
Falls Church, Virginia 22041

prepared for
Aerospace Safety Research and Data Institute

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Lewis Research Center
Contract NAS 3–16540
George Mandel, Program Manager
Paul J. McKenna, Technical Advisor

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
US Department of Commerce
Springfield, VA 22151
The purpose of this Directory is to make available to the aerospace safety community a handbook of organizations and experts in specific, well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields. The file covers sources of data in aerospace design, tests, and operations, as well as information in hazard and failure cause identification, accident analysis, materials characteristics, and other related subject areas.

These 171 organizations and their staff members, hopefully, should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information resources primarily in the United States that have and are willing to share data of value to the aerospace safety community.
NOTICE

THIS DOCUMENT HAS BEEN REPRODUCED FROM THE
BEST COPY FURNISHED US BY THE SPONSORING
AGENCY. ALTHOUGH IT IS RECOGNIZED THAT CER-
TAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RE-
LEASED IN THE INTEREST OF MAKING AVAILABLE
AS MUCH INFORMATION AS POSSIBLE.
The Aerospace Safety Research and Data Institute's mission and objectives are: (a) to support NASA, its contractors and the aerospace industry with technical information and consultation on safety problems; (b) to identify areas where safety problems and technology voids exist and to initiate research programs, both in-house and on contract, in these problem areas; (c) to author and compile state-of-the-art and summary publications in our areas of concern; and (d) to establish and operate a Safety Data Bank.

ASRDI has initiated a number of safety-related research projects which are currently being performed in-house at Lewis and other NASA Centers and on contract with other government agencies and industrial organizations.

ASRDI is concentrating on selected areas: fire and explosion; cryogenic systems; propellants and other hazardous materials, with special emphasis on oxygen and hydrogen; aeronautical systems and aircraft operations; lightning hazards; and the mechanics of structural failure.

Staff expertise is backed by a safety library and is further supported by a computerized bank of citations and abstracts built from literature on oxygen, hydrogen, and fire and explosion. Computer files on mechanics of structural failure, fragmentation hazards, and safety information sources are also being established.

This project on Specialized Information Sources is part of the objective to establish and maintain a file of specialized information sources and recognized, acknowledged experts in the specific areas of ASRDI's interest. This Directory supplements ASRDI's collection of validated aerospace safety-related scientific and engineering information.

Frank E. Belles, Director
Aerospace Safety Research and Data Institute
# TABLE OF CONTENTS

INTRODUCTION ........................................................ xiii

AEROSPACE SAFETY SPECIALIZED INFORMATION SOURCES ................. 1

<table>
<thead>
<tr>
<th>Source</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEC Technical Information Center</td>
<td>3</td>
</tr>
<tr>
<td>Aerospace and Environmental Medicine Information System</td>
<td>4</td>
</tr>
<tr>
<td>Aerospace Materials Information Center</td>
<td>5</td>
</tr>
<tr>
<td>Aerospace Research Applications Center</td>
<td>6</td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute</td>
<td>7</td>
</tr>
<tr>
<td>Air Force Flight Dynamics Laboratory</td>
<td>9</td>
</tr>
<tr>
<td>Air Force Machinability Data Center</td>
<td>10</td>
</tr>
<tr>
<td>(Metcut Research Associates, Inc.)</td>
<td></td>
</tr>
<tr>
<td>Air Pollution Technical Information Center</td>
<td>11</td>
</tr>
<tr>
<td>Alloy Data Center</td>
<td>12</td>
</tr>
<tr>
<td>(National Bureau of Standards)</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists</td>
<td>13</td>
</tr>
<tr>
<td>American Industrial Hygiene Association</td>
<td>14</td>
</tr>
<tr>
<td>American Institute of Physics</td>
<td>15</td>
</tr>
<tr>
<td>American Institute of Steel Construction, Inc.</td>
<td>16</td>
</tr>
<tr>
<td>American Medical Association</td>
<td>17</td>
</tr>
<tr>
<td>(Department of Environmental, Public, and Occupational Health)</td>
<td></td>
</tr>
<tr>
<td>American National Standards Institute</td>
<td>18</td>
</tr>
<tr>
<td>(formerly American Standards Association)</td>
<td></td>
</tr>
<tr>
<td>American Nuclear Society</td>
<td>19</td>
</tr>
<tr>
<td>American Petroleum Institute</td>
<td>20</td>
</tr>
<tr>
<td>American Petroleum Institute. (Central Abstracting and Indexing Service)</td>
<td>21</td>
</tr>
<tr>
<td>American Psychological Association</td>
<td>22</td>
</tr>
<tr>
<td>American Society for Metals</td>
<td>106</td>
</tr>
<tr>
<td>(Metals Information Service)</td>
<td></td>
</tr>
<tr>
<td>American Society for Nondestructive Testing</td>
<td>23</td>
</tr>
<tr>
<td>American Society of Civil Engineers</td>
<td>24</td>
</tr>
<tr>
<td>American Society of Lubrication Engineers</td>
<td>25</td>
</tr>
<tr>
<td>American Society of Mechanical Engineers</td>
<td>26</td>
</tr>
<tr>
<td>American Society of Safety Engineers</td>
<td>27</td>
</tr>
<tr>
<td>American Standards Association. (now American National Standards Institute)</td>
<td>18</td>
</tr>
<tr>
<td>American Welding Society</td>
<td>28</td>
</tr>
<tr>
<td>Armed Forces Institute of Pathology, Aerospace Branch</td>
<td>29</td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute</td>
<td>30</td>
</tr>
<tr>
<td>Army Ballistic Research Laboratories</td>
<td>31</td>
</tr>
<tr>
<td>Army Materials and Mechanics Research Center</td>
<td>32</td>
</tr>
<tr>
<td>(Nondestructive Testing Information Analysis Center)</td>
<td></td>
</tr>
</tbody>
</table>

Preceding page blank
<table>
<thead>
<tr>
<th>Organization and Center</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Association of American Railroads. (Bureau of Explosives)</td>
<td>39</td>
</tr>
<tr>
<td>Atomic and Molecular Ionization Processes Data Center. (National Bureau of Standards)</td>
<td>33</td>
</tr>
<tr>
<td>Atomic Energy Levels Data Center. (National Bureau of Standards)</td>
<td>34</td>
</tr>
<tr>
<td>Atomic Transition Probabilities Data Center. (National Bureau of Standards)</td>
<td>35</td>
</tr>
<tr>
<td>Battelle Memorial Institute (Battery Information Index and Energy Storage Information</td>
<td>36</td>
</tr>
<tr>
<td>Center)</td>
<td></td>
</tr>
<tr>
<td>(Copper Data Center)</td>
<td>54</td>
</tr>
<tr>
<td>(Diver Equipment Information Center)</td>
<td>64</td>
</tr>
<tr>
<td>(Environmental Information Analysis Center)</td>
<td>71</td>
</tr>
<tr>
<td>(Metals and Ceramics Information Center)</td>
<td>105</td>
</tr>
<tr>
<td>(Nondestructive Testing Information Center)</td>
<td>133</td>
</tr>
<tr>
<td>Battery Information Index and Energy Storage Information Center (Battelle Memorial</td>
<td>36</td>
</tr>
<tr>
<td>Institute)</td>
<td></td>
</tr>
<tr>
<td>Belfour Stulen, Inc. (Mechanical Properties Data Center)</td>
<td>103</td>
</tr>
<tr>
<td>Biosciences Information Services</td>
<td>37</td>
</tr>
<tr>
<td>Bureau of Aviation Safety. (National Transportation Safety Board)</td>
<td>38</td>
</tr>
<tr>
<td>Bureau of Explosives. (Association of American Railroads)</td>
<td>39</td>
</tr>
<tr>
<td>Bureau of Mines. (Pittsburgh Mining and Safety Research Center)</td>
<td>143</td>
</tr>
<tr>
<td>Bureau of Motor Carrier Safety</td>
<td>40</td>
</tr>
<tr>
<td>Bureau of Radiological Health.</td>
<td>41</td>
</tr>
<tr>
<td>Central Abstracting and Indexing Service (American Petroleum Institute)</td>
<td>21</td>
</tr>
<tr>
<td>Chemical Kinetics Data Center. (National Bureau of Standards)</td>
<td>42</td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency (Johns Hopkins University, Applied Physics</td>
<td>43</td>
</tr>
<tr>
<td>Laboratory)</td>
<td></td>
</tr>
<tr>
<td>Chemical Thermodynamics Data Center. (National Bureau of Standards)</td>
<td>44</td>
</tr>
<tr>
<td>Chlorine Institute</td>
<td>45</td>
</tr>
<tr>
<td>Civil Aeromedical Institute. (Federal Aviation Administration)</td>
<td>46</td>
</tr>
<tr>
<td>Clearinghouse for Federal Scientific and Technical Information (now National Technical</td>
<td>125</td>
</tr>
<tr>
<td>Information Service)</td>
<td></td>
</tr>
<tr>
<td>Coating and Chemical Laboratory.</td>
<td>47</td>
</tr>
</tbody>
</table>
Combustion Institute. ........................................... 48
Committee on Fire Research....................................... 49
(National Academy of Sciences - National Research Council)
Compressed Gas Association, Inc. ................................ 50
Computer Search Center........................................... 51
(ITT Research Institute, Information Sciences)
Controlled Fusion Atomic Data Center............................ 52
Convair Aerospace Division, Research Library.................... 53
(Geometry Dynamics)
Copper Data Center.............................................. 54
(Battelle Memorial Institute)
Cryogenic Data Center........................................... 55
(National Bureau of Standards)
Crystal Data Center.............................................. 57
(National Bureau of Standards)

Data Center on Atomic Line Shapes and Shifts.................... 58
(National Bureau of Standards)
Defence and Civil Institute of Environmental Medicine......... 59
Defense Documentation Center.................................... 60
DoD Nuclear Information and Analysis Center..................... 61
(General Electric Company (TEMPO))
Department of Environmental, Public, and Occupational Health. 17
(American Medical Association)
Diatom Molecular Spectra and Energy Levels Data Center........ 62
(National Bureau of Standards)
Diffusion in Metals Data Center.................................. 63
(National Bureau of Standards)
Diver Equipment Information Center................................ 64
(Battelle Memorial Institute)

Electrolyte Data Center........................................... 65
(National Bureau of Standards)
Electromagnetic Metrology Information Center.................... 66
(National Bureau of Standards)
Electronic Industries Association.................................. 67
Engineering Index, Inc............................................. 68
Engineering Societies Library...................................... 69
Environment Information Center, Inc................................. 70
Environmental Information Analysis Center........................ 71
(Battelle Memorial Institute)
Environmental Information Division................................ 72
Environmental Science Information Center......................... 73
Executive Sciences Institute, Inc................................... 74
Factory Mutual Research Corporation. ........................................... 75
Federal Aviation Administration. .............................................. 76
Federal Aviation Administration. .............................................. 46
(Civil Aeromedical Institute)
Federal Fire Council .............................................................. 77
(National Bureau of Standards)
Flight Safety Foundation ...................................................... 78

General Dynamics . ..................................................................... 53
(Convair Aerospace Division, Research Library)
General Electric Company (TEMPO) ............................................ 61
(DoD Nuclear Information and Analysis Center)
General Electric Space Division ............................................... 79
Georgia Information Dissemination Center ............................... 80
Global Engineering Documentation Service, Inc. ......................... 82
Goodyear Technical Information Center ...................................... 83
Government-Industry Data Exchange Program ............................ 84
(formerly Interagency Data Exchange Program)
Guggenheim Center for Aerospace Health and Safety .................. 85

Harry Diamond Laboratories ..................................................... 86
Highway Research Information Service ..................................... 87
Highway Safety Research Institute ........................................... 88

IIT Research Institute, Information Sciences ............................... 51
(Computer Search Center)
Illuminating Engineering Society ............................................. 89
Industrial Fasteners Institute .................................................... 90
Information Services Department ............................................. 91
(University of Tulsa)
Institute of Environmental Sciences ......................................... 92
Institute of Gas Technology ..................................................... 93
Institute of Textile Technology ............................................... 95
Instrument Society of America .................................................. 96
Interagency Data Exchange Program ........................................ 84
(now Government-Industry Data Exchange Program)

Johns Hopkins University, Applied Physics Laboratory ............... 43
(Chemical Propulsion Information Agency)

Lead Industries Association, Inc. ............................................. 97
Lockheed Technical Information Center ..................................... 98
Lovelace Foundation for Medical Evaluation and Research .......... 4
(Aerospace and Environmental Medicine Information System)

viii
Low-Temperature Specific Heats Data Center. (National Bureau of Standards) 99

Management Information Systems Directorate, STINFO Branch 100
Manufacturing Chemists Association, Inc. 101
Materials Research Center (Northwestern University) 102
Mechanical Properties Data Center (Belfour Stulen, Inc.) 103
Metal Powder Industries Federation 104
Metals and Ceramics Information Center (Battelle Memorial Institute) 105
Metals Information Service (American Society for Metals) 106
Metcut Research Associates, Inc. (Air Force Machinability Data Center) 107
Microwave Spectral Data Center (National Bureau of Standards) 108
Midwest Research Institute 109

NASA Scientific and Technical Information Office 110
National Academy of Sciences - National Research Council (Committee on Fire Research) 49
National Aircraft Accident Investigation School 111
National Association of Corrosion Engineers 112
National Bureau of Standards
(Alloy Data Center) 12
(Atomic and Molecular Ionization Processes Data Center) 33
(Atomic Energy Levels Data Center) 34
(Atomic Transition Probabilities Data Center) 35
(Chemical Kinetics Data Center) 42
(Chemical Thermodynamics Data Center) 44
(Cryogenic Data Center) 55
(Crystal Data Center) 57
(Data Center on Atomic Line Shapes and Shifts) 58
(Diatomic Molecule Spectra and Energy Levels Data Center) 62
(Diffusion in Metals Data Center) 63
(Electrolyte Data Center) 65
(Electromagnetic Metrology Information Center) 66
(Federal Fire Council) 77
(Low-Temperature Specific Heats Data Center) 99
(Microwave Spectral Data Center) 107
(Office of Standard Reference Data) 138
(Office of Standard Reference Materials) 139
(Photonuclear Data Center) 142
(Standards Information Services) 166
(X-Ray Attenuation Coefficient Information Center) 181
National Center for Atmospheric Research ........................................ 113
National Climatic Center .......................................................... 114
National Council on Radiation Protection and Measurements ............. 115
National Fire Protection Association ............................................ 116
National Fluid Power Association ............................................... 118
National Institute for Occupational Safety and Health ..................... 119
National Library of Medicine ..................................................... 120
National LP-Gas Association ................................................. 121
National Referral Center ....................................................... 122
  (US Library of Congress, Science and Technology Division)
National Safety Council ........................................................... 123
National Space Science Data Center .......................................... 124
National Technical Information Service ....................................... 125
  (formerly Clearinghouse for Federal Scientific and Technical
  Information)
National Transportation Safety Board ....................................... 126
  (Bureau of Aviation Safety)
Naval Aerospace Recovery Facility .......................................... 127
Naval Air Development Center .................................................. 128
Naval Air Propulsion Test Center ............................................. 129
Navy Maintenance and Material Management System ......................... 130
New England Research Application Center ................................... 131
Nondestructive Testing Information Analysis Center ....................... 132
  (Army Materials and Mechanics Research Center)
Nondestructive Testing Information Center ................................ 133
  ( Battelle Memorial Institute)
North Carolina Science and Technology Research Center ................ 134
Northwestern University ......................................................... 102
  ( Materials Research Center)
Nuclear Safety Information Center ........................................... 135
Numerical Control Society ...................................................... 136
Occupational Safety and Health Administration ............................ 137
Office of Standard Reference Data ............................................ 138
  (National Bureau of Standards)
Office of Standard Reference Materials .................................... 139
  (National Bureau of Standards)
Office of Telecommunications ............................................... 140
Pennsylvania Transportation and Traffic Safety Center .................... 141
Photonuclear Data Center ....................................................... 142
  (National Bureau of Standards)
Pittsburgh Mining and Safety Research Center ................................ 143
  (Bureau of Mines)
Power Information Center ..................................................... 144
  (US Interagency Advanced Power Group)
Project SETE ................................................................. 145
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiation Chemistry Data Center</td>
<td>146</td>
</tr>
<tr>
<td>Radiation Shielding Information Center</td>
<td>147</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics</td>
<td>148</td>
</tr>
<tr>
<td>Rare-Earth Information Center</td>
<td>149</td>
</tr>
<tr>
<td>Redstone Scientific Information Center</td>
<td>150</td>
</tr>
<tr>
<td>Regional Information and Communication Exchange</td>
<td>151</td>
</tr>
<tr>
<td>Reliability Analysis Center</td>
<td>152</td>
</tr>
<tr>
<td>Research Materials Information Center</td>
<td>153</td>
</tr>
<tr>
<td>Rockwell Technical Information Processing System</td>
<td>154</td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank</td>
<td>155</td>
</tr>
<tr>
<td>SAR-ASSIST, Inc.</td>
<td>156</td>
</tr>
<tr>
<td>Science Information Services</td>
<td>157</td>
</tr>
<tr>
<td>Shock and Vibration Information Center</td>
<td>158</td>
</tr>
<tr>
<td>Shock Wave Data Center</td>
<td>159</td>
</tr>
<tr>
<td>Smithsonian Science Information Exchange</td>
<td>160</td>
</tr>
<tr>
<td>Society for Computer Simulation</td>
<td>161</td>
</tr>
<tr>
<td>Society of Automotive Engineers, Inc.</td>
<td>162</td>
</tr>
<tr>
<td>Society of the Plastics Industry, Inc.</td>
<td>163</td>
</tr>
<tr>
<td>Southwest Research Institute</td>
<td>164</td>
</tr>
<tr>
<td>Space and Missile Test Center</td>
<td>165</td>
</tr>
<tr>
<td>Standards Information Services</td>
<td>166</td>
</tr>
<tr>
<td>(National Bureau of Standards)</td>
<td></td>
</tr>
<tr>
<td>Steel Founders' Society of America</td>
<td>167</td>
</tr>
<tr>
<td>System Safety Office, Electronic Systems Division</td>
<td>168</td>
</tr>
<tr>
<td>Technology Application Center</td>
<td>169</td>
</tr>
<tr>
<td>Thermodynamics Research Center</td>
<td>171</td>
</tr>
<tr>
<td>Thermophysical Properties Information Analysis Center</td>
<td>172</td>
</tr>
<tr>
<td>Tin Research Institute, Inc.</td>
<td>173</td>
</tr>
<tr>
<td>Toxicology Information Program</td>
<td>174</td>
</tr>
<tr>
<td>Transportation Safety Institute</td>
<td>175</td>
</tr>
<tr>
<td>Underwriters' Laboratories, Inc.</td>
<td>176</td>
</tr>
<tr>
<td>US Army Environmental Hygiene Agency</td>
<td>177</td>
</tr>
<tr>
<td>US Army Research Office</td>
<td>178</td>
</tr>
<tr>
<td>US Interagency Advanced Power Group</td>
<td>144</td>
</tr>
<tr>
<td>(Power Information Center)</td>
<td></td>
</tr>
<tr>
<td>US Library of Congress, Science and Technology Division</td>
<td>122</td>
</tr>
<tr>
<td>(National Referral Center)</td>
<td></td>
</tr>
<tr>
<td>University of Tulsa</td>
<td>91</td>
</tr>
<tr>
<td>(Information Services Department)</td>
<td></td>
</tr>
<tr>
<td>Western Research Application Center</td>
<td>179</td>
</tr>
<tr>
<td>X-Ray Attenuation Coefficient Information Center</td>
<td>181</td>
</tr>
<tr>
<td>(National Bureau of Standards)</td>
<td></td>
</tr>
</tbody>
</table>
INDEXES. .............................................. 183
I. Experts Listed by Speciality. ...................... 185
II. Alphabetical List of Experts. .................... 193
III. Information Sources Listed by Areas of Expertise. 201
INTRODUCTION

The purpose of this Directory is to make available to the aerospace safety community a handbook of organizations and experts in specific, well-defined areas of safety technology. It is designed for the safety specialist as an aid for locating both information sources and individual points of contact (experts) in engineering related fields.

These 171 organizations and their staff members, hopefully, should provide technical information in the form of documentation, data and consulting expertise. These will be sources that have assembled and collated their information, so that it will be useful in the solution of engineering problems. One of the goals of the project is to provide a consolidated listing and description of information resources primarily in the United States that have and are willing to share data of value to the aerospace safety community.

The file covers sources of data in aerospace design, tests, and operations, as well as information in hazard and failure cause identification, accident analysis, materials characteristics, and other related subject areas. Although the interests of aviation, aerospace, and ground support safety are of primary concern, the comprehensive coverage of the Directory will provide information of considerable value to safety professionals in many other fields.

More than one thousand organizations with aerospace-safety-related information were contacted.

An Aerospace Safety Specialized information Source was defined as an organization that satisfies the following requirements:

a. Maintains a specialized collection or file of materials relevant to aerospace safety.

b. Regularly provides qualified users with information on a particular subject, or with referrals to outside experts.

c. Has a responsibility to function as an Information Source; however, this responsibility does not have to be formalized as part of their charter.

To present the contents of this Directory in an easy reference form, two indexes were developed using keyword terms to identify and highlight the expertise of the organizations and their staff members.

These keywords were selected to describe these Information Sources and their Experts with meaningful terms that have a direct application to safety related problem areas.
In addition, an Information Sources Record was developed to standardize the basic elements which would describe the resources and information capabilities of each Information Source. The Record's emphasis would be on its usefulness for quickly locating sources of information who are most active or most knowledgeable in the discipline related to aerospace technology.

The contents of this Directory are based on the format of the Record which was developed specifically for this project.

This is recognized as being an incomplete listing of Information Sources and represents only an initial installment. Nevertheless, it is hoped that it will contribute as a working guide to those who seek specialized safety information relative to aerospace technology.

It is apparent that serious information gaps exist and candidates for a revised register are encouraged, both from the standpoint of organizations who have special information files, as well as individuals who are recognized experts in specific areas of aerospace technology.

We also realize that there are other well qualified organizations who are not included. A number of them requested their omission for various management reasons.

George Mandel, Program Manager
AEROSPACE SAFETY SPECIALIZED INFORMATION SOURCES
AEC TECHNICAL INFORMATION CENTER (DTIE)

ADDRESS: PO Box 62
Oak Ridge, TN
37830

TELEPHONE: (615)483-8611, x3-4352

DIRECTOR: Shannon, R. L.

PARENT—SPONSOR—HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To encourage the dissemination of scientific and technical information relating to atomic energy in order to provide that free interchange of ideas and criticisms which is essential to scientific and industrial progress and public understanding.

SUBJECT SCOPE: Nuclear science and technology.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Aerospace nuclear safety; Dangerous industrial radiation; Extraterrestrial environmental hazards; Ionizing radiation; Nuclear blast; Nuclear radiation; Nuclear safety; Radioactive decontamination; Radiation detection; Radiation effects; Radiation protection; Radiation resistance; Radiation tolerance levels; Radioactive wastes; Solar radiation.

RESEARCH AND DEVELOPMENT ACTIVITIES: Publishes compilations of on-going research projects in certain subject fields.

SPECIAL SCOPE FEATURES: Nuclear science aspects of: chemistry, engineering, environmental and earth sciences, instrumentation, isotope and radiation source technology, life sciences, materials, nuclear materials and waste management, particle accelerators, physics (astrophysics and cosmology), physics (atmospheric), physics (atomic and molecular), physics (electrofluid and magnetofluid), physics (high-energy), physics (low-temperature), physics (nuclear), physics (plasma and thermonuclear), physics (radiation and shielding), physics (solid-state), physics (theoretical), and reactor technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shannon, R. L.</td>
<td>Technical information</td>
<td>(615)483-8611 x3-4352</td>
</tr>
<tr>
<td>Norris, J. W.</td>
<td>Technical information</td>
<td>(615)483-8611 x3-4352</td>
</tr>
</tbody>
</table>

STAFF: Full-time—professional 84, nonprofessional 131, total 215; part-time—professional 8, nonprofessional 6, total 14.

INTERNAL PUBLICATIONS: Book catalogs; books; abstracts; indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Reports and reprints: 400,000; films and slides: 400+.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECON</td>
<td>Nuclear science and technology</td>
<td>1968 – present</td>
<td>300,000</td>
</tr>
<tr>
<td>RESPONSA</td>
<td>Nuclear science and technology</td>
<td>1962 – present</td>
<td>550,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; translations.

USER QUALIFICATIONS: General technology community; Government employees; and Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AEROSPACE AND ENVIRONMENTAL MEDICINE INFORMATION SYSTEM (AEMIS)

ADDRESS: Lovelace Foundation for Medical Education and Research
5200 Gibson Boulevard, SE
Albuquerque, NM
87108

TELEPHONE: (505) 842-7031

DIRECTOR: Masters, R. L.

PARENT-SPONSOR-HOST AFFILIATION: Lovelace Foundation for Medical Education and Research

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To speed retrieval of information in the field of life sciences, particularly that related to the effects of space flight on the biological system.

SUBJECT SCOPE: Aerospace medicine; clinical and preventive medicine; biology; systematic, environmental, and stress physiology; bionics; electronic sensors; toxicology and pharmacology; human engineering; geophysical sciences; basic chemistry, mathematics, and physics; engineering; materials and metals; nuclear weapons and blast effects; and nuclear medicine.

MAJOR SUBJECT TERMS: Aerospace medicine; Biomechanics; Biotechnology; Extraterrestrial environmental hazards; Ionizing radiation; Personal protective equipment; Personnel subsystems; Physiology; Psychology; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on trauma produced by human exposure to blast effects, inhalation toxicology, and other areas of space medicine, bioastronautics, biotechnology, and related fields.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters, R. L.</td>
<td>Life sciences; Computer sciences</td>
<td>(505) 842-7031</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference list bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; ad hoc permission.

May 1973
AEROSPACE MATERIALS INFORMATION CENTER (AMIC)

ADDRESS: University of Dayton Research Institute
KL 445
Dayton, OH
45409

TELEPHONE: (513)229-3711 or 255-2160

DIRECTOR: March, J. F.

PARENT-SPONSOR-HOST AFFILIATION: University of Dayton Research Institute and US Department of Defense (Department of the Air Force, Air Force Materials Laboratory)

MISSION: To serve the information needs of the entire scientific and technical staff of the Air Force Materials Laboratory (AFML) and also contractors and other government organizations.

SUBJECT SCOPE: Aeronautics; astronomy, astrophysics, atmospheric sciences; geosciences; chemistry; biology; medicine; electronics, electrical engineering; adhesives, seals, sealants; ceramics, graphites, refractories, glasses, minerals; coatings, paints, oxide films; composite materials; fibers, textiles, cloth; metallurgy, metallography; lubricants, oils; polymers, plastics; elastomers, rubber, cleaning compounds, surface active substances; wood and paper products; fuels, propellants; mechanical, industrial, civil, marine engineering; methods and equipments; nuclear science and technology; physics; space technology, missiles.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Testing and development of new aerospace materials; making flight load studies and performing other flight dynamics research; performing statistical studies of aircraft ground fire suppression and rescue.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>March, J. F.</td>
<td>Technical information</td>
<td>(513)229-3711</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

USER QUALIFICATIONS: Immediate staff or members; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
AEROSPACE RESEARCH APPLICATIONS CENTER

ADDRESS: Poplars Research and Conference Center, Indiana University
Bloomington, IN 47401

TELEPHONE: (812) 337-7833

DIRECTOR: Shriner, R. D.

PARENT-SPONSOR-HOST AFFILIATION: Indiana University Foundation

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To provide in-depth access to the world’s technical information resources.

SUBJECT SCOPE: Space and aeronautics, including materials, management, life support, biomedical technology, electronics, computers, communications, propulsion systems, clean room technology, cryogenics; behavioral and social sciences; biological, chemical, and physical sciences; earth sciences and oceanography; mechanical, industrial, civil and marine engineering; human factors engineering; nuclear sciences; pollution.

MAJOR SUBJECT TERMS: Adhesives; Chemistry; Civil engineering; Composites; Graphite; Lubricants; Mathematical sciences; Nuclear sciences; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shriner, R. D.</td>
<td>Technical information</td>
<td>(812) 337-7833</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; custom abstracting and indexing.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
AEROSPACE SAFETY RESEARCH AND DATA INSTITUTE (ASRDI)

ADDRESS: NASA-Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135

TELEPHONE: (216) 443-4000

DIRECTOR: Belles, F. E.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To support NASA, its contractors and the aerospace industry with technical information and consultation on safety problems; to identify areas where safety problems and technology voids exist and to initiate research programs both in-house and on contract in these problem areas; to author and compile state-of-the-art and summary publications in our areas of concern; to establish and operate a Safety Data Bank which includes a file of Specialized Information Sources (organizations) and experts in the specific areas or fields of ASRDI’s interests.

SUBJECT SCOPE: Aerospace safety, including mechanics of structural failure; man-machine hazards; structural materials limitations (metallic and nonmetallic); propellants, fuels, lubricants, hydraulic fluids safety; cryogenic safety; fire, explosion and detonations; aerospace explosives, pyrotechnics and initiators; aircraft problems; space vehicle problems; launch base operations; nuclear safety; extraterrestrial environmental hazards; dangerous industrial radiation; dangerous materials; safety manuals, codes, specifications, standards; safety analysis.

MAJOR SUBJECT TERMS: Aerospace explosives; Aerospace safety engineering; Aircraft problems; Cryogenic safety; Dangerous industrial radiation; Extraterrestrial environmental hazards; Fire, explosion, and detonations; Hazardous materials; Hydraulic fluids; Launch base operations; Lubricants; Man-machine hazards; Mechanics of structural failure; Nuclear safety; Propellants and fuels; Pyrotechnics safety; Safety analysis; Safety manuals; Safety standards; Space vehicle problems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs safety related research projects at Lewis, and other NASA Centers, and on contract, including fire protection on the shuttle and orbiting workshop, lightning hazards to aerospace electrical systems, rotor burst protection for aircraft, aircraft braking systems, safety problems involving the systems handling of cryogenic propellants, flaw growth tests of 304 stainless steel pressure vessels, safety problems and hazards of the space base nuclear system and oxygen safety.

SPECIAL SCOPE FEATURES: ASRDI’s expertise is safety technology in the areas of propellant safety; oxygen safety; fire, explosions, and detonations; and aircraft operating problems (such as altimetry, improved braking materials and runway, and rotor burst fragmentation studies). Research is being pursued on the mechanics of structural failure and structural materials limitations. The areas of aerospace explosives, pyrotechnics and initiators; space vehicle problems; launch base operations; nuclear safety; extraterrestrial environmental hazards; dangerous industrial radiation; dangerous materials; safety manuals, codes, specifications, standards, etc.; and safety analysis have not been developed to any great extent.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belles, F. E.</td>
<td>Propellants</td>
<td>(216) 443-4000 x453</td>
</tr>
<tr>
<td>Hacker, P. T.</td>
<td>Fire and explosion</td>
<td>(216) 443-4000 x6898</td>
</tr>
<tr>
<td>Mandel, G.</td>
<td>Technical information</td>
<td>(216) 443-4000 x285</td>
</tr>
<tr>
<td>Ordin, P. M.</td>
<td>Cryogenic fluids</td>
<td>(216) 443-4000 x5941</td>
</tr>
<tr>
<td>McKenna, P. J.</td>
<td>Technical information</td>
<td>(216) 443-4000 x285</td>
</tr>
<tr>
<td>Schmidt, H. W.</td>
<td>Oxygen</td>
<td>(216) 443-4000 x564</td>
</tr>
<tr>
<td>Weiss, S.</td>
<td>Aircraft operating problems</td>
<td>(216) 443-4000 x6898</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 11, nonprofessional 2, total 13; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.
ASRDI Holdings:

**Books:** 1,000; abstracts/indexes: reports and reprints: 10,000; periodicals; standards and specifications.

**Data Bank Resources:**

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASRDI</td>
<td>Oxygen</td>
<td>1970 - present</td>
<td>4,000</td>
</tr>
<tr>
<td>CRYO</td>
<td>NBS-Boulder's file on cryogenics</td>
<td>85,000</td>
<td></td>
</tr>
<tr>
<td>COMAT</td>
<td>Compatibility of Materials</td>
<td>39,000</td>
<td></td>
</tr>
<tr>
<td>PEASIC</td>
<td>NBS-Gaithersburg File on Fire</td>
<td>1972 - present</td>
<td>2,000</td>
</tr>
<tr>
<td>RECON</td>
<td>NASA</td>
<td>1962 - present</td>
<td>900,000</td>
</tr>
<tr>
<td>NSIC</td>
<td>Nuclear Safety</td>
<td>75,000</td>
<td></td>
</tr>
</tbody>
</table>

**Reference and Query Services:** Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

**Other Services:** On-site use of collection; interlibrary loans; reproduction/publication services.

**User Qualifications:** General technology community; Government employees; Government contractors.

**User Restrictions:** None (unclassified material); Federal security clearance.

**Pricing and Service Charges:** All services free to qualified users.

May 1973
AIR FORCE FLIGHT DYNAMICS LABORATORY (AFFDL)

ADDRESS: Director of Laboratories, ATTN: DOO
Wright-Patterson Air Force Base, OH
45433

TELEPHONE: (513) 255-2532

DIRECTOR: Scolatti, C. A.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To plan and execute USAF exploratory and advanced development programs for aerospace vehicle technology, including entire flight systems integration.

SUBJECT SCOPE: Aerospace flight vehicle structures, aerodynamics, aero thermodynamics, performance, vehicle dynamics, flight control, recovery and crew stations, cryogenics, environmental control, and mechanical systems.

MAJOR SUBJECT TERMS: Abort procedures; Aerodynamics; Air navigation; Aircraft problems; Aircraft subsystems; Aircraft types; Communications; Corrosion properties; Emergency equipment; Emergency planning; Environmental influences; Experimental aircraft; Mechanical properties; Mechanics of structural failure; Operational mode; Personnel selection; Personnel training; Physical properties; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts configuration research, ground and flight tests, and simulation relative to advanced aerospace flight vehicles and develops experimental flight vehicles to acquire design data and criteria by integrating and demonstrating new technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scolatti, C. A.</td>
<td>Physical sciences</td>
<td>(513) 255-2532</td>
</tr>
<tr>
<td>Arthur, G.</td>
<td>Physical sciences</td>
<td>(513) 255-4995</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 700, nonprofessional 450, total 1150; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AIR FORCE MACHINABILITY DATA CENTER (MDC)

ADDRESS: Metcut Research Associates, Inc.
3980 Rosslyn Drive
Cincinnati, OH
45209

TELEPHONE: (513) 271-9510; TWX (810) 461-2840

DIRECTOR: Kahles, J. F. (Dr)


YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, evaluate, store, and disseminate material removal information, including specific and detailed machinery data, for the benefit of industry and Government.

SUBJECT SCOPE: Engineering evaluation for the purpose of developing optimized material removal parameters, such as spuds, feeds, depths of cut, tool material and geometry, cutting fluids and other significant variables; materials; material removal operations, such as turning, milling, drilling, tapping, grinding, electrical discharge machining, electrochemical machining, and surface integrity.

MAJOR SUBJECT TERMS: Aluminum; Copper; Ferrous metals; Industrial processes; Industrial safety; Machinery; Machining; Magnesium; Material removal; Materials; Mechanical properties; Metal powders; Nickel; Plastics; Precious metals; Titanium; Zirconium.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (if)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kahles, J. F.</td>
<td>Materials</td>
<td>(513) 271-9510</td>
</tr>
<tr>
<td>Garrison, R. C.</td>
<td>Information and Data</td>
<td>(513) 271-9510</td>
</tr>
<tr>
<td>Ackenhausen, A. E.</td>
<td>Documentation</td>
<td>(513) 271-9510</td>
</tr>
<tr>
<td>Krobs, J. L.</td>
<td>Computer sciences</td>
<td>(513) 271-9510</td>
</tr>
<tr>
<td>Snida, R. E.</td>
<td>Machining</td>
<td>(513) 271-9510</td>
</tr>
<tr>
<td>Perkins, K.</td>
<td>Documentation</td>
<td>(513) 271-9510</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 6, nonprofessional 1, total 7; part-time - professional 7, nonprofessional 1, total 8.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; referrals.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AIR POLLUTION TECHNICAL INFORMATION CENTER (APTIC)

ADDRESS: Office of Air Quality Planning and Standards
Research Triangle Park, NC
27711

TELEPHONE: (919) 549-8411 x2141

DIRECTOR: Halpin, P.

PARENT-SPONSOR-HOST AFFILIATION: US Environmental Protection Agency

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To collect and disseminate domestic and foreign technical literature related to
air pollution.

SUBJECT SCOPE: Air pollution and related subjects.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Dangerous materials disposal; Noise;
Radioactive decontamination; Radioactive spills; Radioactive wastes; Sanitation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halpin, P.</td>
<td>Environmental sciences</td>
<td>(919) 549-8411 x2141</td>
</tr>
<tr>
<td>Knight, J.</td>
<td>Chemistry; Air pollution</td>
<td>(919) 549-8411 x2141</td>
</tr>
</tbody>
</table>

STAFF: full-time - professional 4, nonprofessional 4, total 8; part-time - professional 0,
nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals;
reference lists/bibliographies.

HOLDINGS: Abstracts/indexes: 50,000; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>APTIC</td>
<td>Abstracts on Air Pollution</td>
<td>1966 - present</td>
<td>50,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches;
selective dissemination of information; state-of-the-art reviews; advisory and consult-
ing services; referrals; bibliographic abstracts; custom abstracting and indexing
services.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to users.

May 1973
**ALLOY DATA CENTER**

**ADDRESS:** National Bureau of Standards  
Washington, DC  
20234

**TELEPHONE:** (202) 921-2917

**DIRECTOR:** Carter, G. C.

**PARENT-SPONSOR-HOST AFFILIATION:** US Department of Commerce (National Bureau of Standards)

**YEAR INFORMATION SOURCE BEGAN:** 1966

**MISSION:** To stimulate the communication and exchange of information among the already existing data centers in the field of physical properties of metals and alloys; to collect and evaluate data in those areas for which there is special competence in alloy physics.

**SUBJECT SCOPE:** Data evaluation in the fields of soft x-ray spectra and nuclear magnetic resonance (NMR) in metals and alloys, susceptibilities, specific heats, Mossbauer effect, hyperfine fields, and quantum description of solids.

**MAJOR SUBJECT TERMS:** Aluminum; Beryllium; Cobalt; Copper; Ferrous metals; Magnesium; Magnetic properties; Metal powders; Nickel; Precious metals; Titanium.

**STAFF SUBJECT SPECIALISTS:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carter, G. C.</td>
<td>Metallurgy; Physics</td>
<td>(202) 921-2917</td>
</tr>
<tr>
<td>Kahan, D. J.</td>
<td>Solid state physics</td>
<td>(202) 921-2917</td>
</tr>
<tr>
<td>Bennett, L. H.</td>
<td>Solid state physics; Metals</td>
<td>(202) 921-2982</td>
</tr>
</tbody>
</table>

**STAFF:** Full-time - professional 0, nonprofessional 0, total 0; part-time - professional 1-1/2, nonprofessional 1, total 2-1/2.

**INTERNAL PUBLICATIONS:** Book catalogs; books; handbooks/manuals; abstracts; indexes; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

**HOLDINGS:** Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations. Total number of titles: 17,000.

**REFERENCE AND QUERY SERVICES:** Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

**OTHER SERVICES:** On-site use of collection.

**USER QUALIFICATIONS:** General technology community.

**USER RESTRICTIONS:** None (unclassified material).

**PRICING AND SERVICE CHARGES:** Charge for some services to qualified users.

May 1973
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)

ADDRESS: PO Box 1937
        Cincinnati, OH
        45201

TELEPHONE: (513) 684-2652

DIRECTOR: Kelley, W. D.

MISSION: To promote all aspects of industrial hygiene; to coordinate industrial hygiene activities on all levels of government with community agencies, and to encourage the interchange of experience among these personnel; to collect and make accessible information of assistance to governmental industrial hygienists.

SUBJECT SCOPE: Industrial hygiene, including agricultural health, air pollution, air sampling instruments, safety analysis, industrial ventilation, ionizing radiation, nursing services, threshold limits for airborne contaminants and physical agents, hyperbaric environments, aerosol hazards, direct-reading gas detecting tube systems, mining environments, sampling and testing, and standards.

MAJOR SUBJECT TERMS: Aerospace nuclear safety; Atmospheric monitoring; Crew considerations; Dangerous industrial radiation; Dangerous materials; Environmental degradation; Environmental influences; Hazard detection systems; Human characteristics; Human factors analysis; Human factors design; Industrial safety; Life support design; Mission abort practices; Nuclear power plant safety design; Personal protective equipment; Protective clothing; Radiation shielding; Toxic effects; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelley, W. D.</td>
<td>Industrial safety and health</td>
<td>(513) 684-2652</td>
</tr>
<tr>
<td>Stokinger, H. E.</td>
<td>Toxicology</td>
<td>(513) 684-2697</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973
AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)

ADDRESS: 66 South Miller Road
Akron, OH
44313

TELEPHONE: (216) 836-9537

DIRECTOR: McCormick, W. E.

MISSION: To promote the study and control of environmental factors affecting the health of industrial workers; to collect, exchange, and disseminate information pertaining to industrial hygiene; to unify the specialties within industrial hygiene; to provide communication among governmental, industrial, and educational groups; to develop nomenclature for better communication; and to establish toxicity and labelling criteria for products.

SUBJECT SCOPE: The recognition of environmental factors and stresses associated with work and work operations, their ability to impair man's health and well being, and the prescription of methods to control or reduce such factors or stresses to alleviate their effects.

MAJOR SUBJECT TERMS: Biological sciences; Environmental effects; Environmental factors; Hygiene; Industrial safety and health; Safety analysis; Toxicology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McCormick, W. E.</td>
<td>Industrial hygiene</td>
<td>(216) 836-9537</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973
AMERICAN INSTITUTE OF PHYSICS (AIP)

ADDRESS: 335 East 45th Street
New York, NY
10017

TELEPHONE: (212) 685-1940

DIRECTOR: Koch, H. W.

YEAR INFORMATION SOURCE BEGAN: 1931

MISSION: To further the advancement and diffusion of the knowledge of physics and its application to human welfare.

SUBJECT SCOPE: Physics; astronomy, optics; astrophysics; acoustics; and spectroscopy.

MAJOR SUBJECT TERMS: Acoustic loading; Biotechnology; Cosmic radiation; Cosmic rays; Electromagnetic disturbances; Electromagnetic radiation; Environmental influences; Fatigue (materials); Galactic radiation; Gravity; Interplanetary gases; Ionizing radiation; Meteoroids; Nuclear radiation; Physical properties; Radiation; Shock and vibration; Solar radiation; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Koch, H. W.</td>
<td>Physics</td>
<td>(212) 685-1940</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Activity</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPIN</td>
<td>Physics and astronomy journal literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPM</td>
<td>Current Physics Microforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPT</td>
<td>Current Physics Titles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPAA</td>
<td>Current Physics Advance Abstracts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; bibliographic abstracts; translations.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposia.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC)

ADDRESS: 101 Park Avenue
New York, NY
10017

TELEPHONE: (212) 685-7374

DIRECTOR: Edmonds, J. K.

YEAR INFORMATION SOURCE BEGAN: 1921

MISSION: To improve and advance the use of fabricated structural steel; and to develop through research and engineering the most efficient, safe, and economical fabrication and design of steel frame structures.

SUBJECT SCOPE: Steel design and construction.

MAJOR SUBJECT TERMS: Construction materials; Construction practices; Fabrication processes; Fastening methods; Industrial processes; Joining methods; Steel; Steel alloys; Steel construction; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research into the behavior of steel structures and their components, resulting in improved specifications, new design methods, and safer, more efficient and economical steel buildings and bridges.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmonds, J. K.</td>
<td>Steel construction</td>
<td>(212) 685-7374</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
AMERICAN MEDICAL ASSOCIATION (AMA)

ADDRESS: Department of Environmental, Public, and Occupation Health
535 North Dearborn Street
Chicago, IL
60610

TELEPHONE: (312) 527-1500

DIRECTOR: Finkel, A. J. (Dr)

MISSION: AMA's occupational health activities are handled with the support of staff members and appropriate consultants. In addition, the name of the Council on Environmental and Public Health was changed to the Council on Environmental, Occupational and Public Health to reflect the emphasis on occupational medicine.

SUBJECT SCOPE: Environmental sciences, industrial safety and health, human factors engineering, toxicology, mental health and alcoholism, aerospace medicine, workmen's compensation reform, preventive medicine, radiation hazards, employment of handicapped persons, and disaster medical service.

MAJOR SUBJECT TERMS: Air pollution control; Biomedical engineering; Contamination; Emergency planning; Environmental effects; Health hazards; Hygiene; Industrial safety and health; Life sciences; Physiological stress; Physiology; Radiation physiological effects; Safety practices; Sanitation; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finkel, A. J.</td>
<td>Industrial safety and health</td>
<td>(312) 527-1500</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; files and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ADDRESS: 1430 Broadway
New York, NY
10018

TELEPHONE: (212) 868-1220

DIRECTOR: Trowbridge, R. P.

MISSION: To coordinate standards development in the private sector, which is presently carried on primarily by the Institute's organizational members and public bodies.

SUBJECT SCOPE: American National Standards relating to: construction, mechanics, acoustics, electricity and electronics, fuel gas, graphics, heating, air conditioning, refrigeration, highway traffic safety, information processing systems, materials and testing, mining, nuclear energy, photography, physical distribution, piping and processing equipment, safety, textiles, and welding.

MAJOR SUBJECT TERMS: Accident reporting; Air navigation; Aircraft laws/standards/regulations; Aircraft servicing; Airport emergency facilities/equipment; Airport lighting; Dangerous industrial radiation; Dangerous materials; Detection and warning systems; Fabrication processes; Fire extinguishment methods; Fire fighting equipment; Fire retardant materials; Flight paths and approaches; Fuel farm facilities/operations; Joining methods; Materials standardization; Mechanical properties; Nuclear safety; Safety laws.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trowbridge, R. P.</td>
<td>Standards</td>
<td>(212) 868-1220</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; abstracts; indexes; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
AMERICAN NUCLEAR SOCIETY (ANS)

ADDRESS: 244 East Ogden Avenue
Hinsdale, IL
60521

TELEPHONE: (312) 325-1991

DIRECTOR: Du Temple, O. J.

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To further the advancement of science and engineering relating to the atomic nucleus, and of allied sciences and arts, and the integration of the scientific disciplines constituting nuclear science and technology; to encourage research, establish scholarships, disseminate information, hold meetings devoted to scientific and technological papers, and cooperate with government agencies, educational institutions, and other similar organizations

SUBJECT SCOPE: Nuclear science, aerospace, remote systems technology, isotopes and radiation, materials science technology, power, reactor physics, shielding and dosimetry, reactor operations, mathematics and computation, civil explosion applications, nuclear criticality safety, nuclear fuel cycle, environmental sciences, controlled nuclear fusion, nuclear reactor safety, and engineering.

MAJOR SUBJECT TERMS: Environmental sciences; Human factors; Ionizing radiation; Materials; Nuclear energy; Nuclear fuels; Nuclear safety; Power sources; Radiation effects; Radiation protection; Radiation tolerance levels; Radioactive decontamination; Reactor technology; Seismology; Shielding; Survival; Toxicology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs manpower surveys.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuTemple, O. J.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
<tr>
<td>Jacobson, N.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
<tr>
<td>Quinn, R.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
<tr>
<td>Payne, J.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
<tr>
<td>Brown, R.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
<tr>
<td>Harris, R.</td>
<td>Nuclear power</td>
<td>(312) 325-1991</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 5, nonprofessional 30, total 35; part-time - professional 3, nonprofessional 4, total 7.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years total: 1958 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposia.

USER QUALIFICATIONS: Immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973
AMERICAN PETROLEUM INSTITUTE (API)

ADDRESS: 1801 K Street, NW
Washington, DC 20006

TELEPHONE: (202) 833-5690

DIRECTOR: McKenna, J. F.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: To promote the general interests of the petroleum industry in all its branches; to foster foreign and domestic trade in American petroleum products; to afford a means of cooperation with the governments in matters of national concern; and to promote the mutual improvement of the members through the study of arts and sciences connected with the petroleum industry. This is the parent organization of the API-CAIS (Central Abstracting and Indexing Service). See No. 5730018.

SUBJECT SCOPE: The origin, occurrence, composition, measurement, and properties of petroleum; the refining, marketing, and transporting of petroleum; geology; geophysics; accounting; economics; paleontology; research; air and water conservation; wildlife conservation; occupational medicine and environmental health.

MAJOR SUBJECT TERMS: Compressed gases; Corrosion properties; Dangerous materials disposal; Ethylene; Explosives; Fire, explosion, and detonations; Flammables; Fuel farm facilities/operations; Fuels; Hydrogen; Launch operations; Liquefied gases; Lubricants; Methane; Nitrogen; Shipping procedures; Shipping regulations; Storage procedures; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>McKenna, J. F.</td>
<td>Petroleum; Materials</td>
<td>(202) 833-5690</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AMERICAN PETROLEUM INSTITUTE (CAIS)

ADDRESS: Central Abstracting and Indexing Service  
275 Madison Avenue  
New York, NY  
10016

TELEPHONE: (212) 586-4203

DIRECTOR: Brenner, E. H.

MISSION: To satisfy the petroleum industry's need for access to technical information, past and present. This is the technical information and abstracting service of the American Petroleum Institute. See No. S730017.

SUBJECT SCOPE: Refining, petrochemicals, developments in all phases of petroleum.

MAJOR SUBJECT TERMS: Fire, explosion, and detonations; Explosion and detonations; Fuels; Hazardous materials; Hydraulic fluids; Lubricants; Oils; Organic chemistry; Petroleum; Physics; Propellants and fuels; Refining; Safety engineering; Thermodynamics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brenner, E. H.</td>
<td>Petroleum</td>
<td>(212) 586-4203</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; indexes; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; bibliographic abstracts; custom abstracting and indexing services.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
AMERICAN PSYCHOLOGICAL ASSOCIATION (APA)

ADDRESS: 1200 Seventeenth Street, NW
Washington, DC
20036

TELEPHONE: (202) 833-7639

DIRECTOR: Preston, H. O. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1892

MISSION: To advance psychology as a science and as a means of promoting human welfare by the encouragement of psychology in all its branches and in the broadest and most liberal manner.

SUBJECT SCOPE: Psychology, behavioral sciences, and human factors engineering.

MAJOR SUBJECT TERMS: Human characteristics; Human factors analysis; Human factors design; Human functions; Job performance aids; Personnel selection; Personnel training; Psychology; Senses.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preston, H. C.</td>
<td>Psychology</td>
<td>(202) 833-7639</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>PASAR</td>
<td>Psychological Abstracts</td>
<td>1967 - present</td>
<td>110,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts.

OTHER SERVICES: Conferences/symposia.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

May 1973
AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT)

ADDRESS: 914 Chicago Avenue
Evanston, IL
60202

TELEPHONE: (312) 475-4600

DIRECTOR: Searles, C. E.

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To advance scientific, engineering, and technical knowledge in the field of nondestructive testing through education, research, and the compilation and dissemination of information useful to the individual and beneficial to the public.

SUBJECT SCOPE: Nondestructive testing in areas of aerospace, automotive, marine, and railroad transportation; aluminum, chemicals, petroleum, electronics, materials (metallic and nonmetallic), nuclear energy, rubber, steel, and utilities; electrical and magnetic methods, holography, infrared and thermal techniques, leak testing, penetrating radiation, penetrants, and sonic.

MAJOR SUBJECT TERMS: Aerospace ground operations; Aerospace safety engineering; Aircraft certification; Aircraft servicing; Fire extinguishment methods; Fire extinguishment testing; Fire, explosion, and detonations; Industrial safety; Mechanics of structural failure; Nondestructive testing; Safety practices; Safety regulations; Servicing; Statutes; Structural materials limitations; Test data; Test equipment; Test facilities; Test results; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Has research division, presently inactive.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Searles, C. E.</td>
<td>Nondestructive testing</td>
<td>(312) 475-4600</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications.

HOLDINGS: Books; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside of organization.

May 1973
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ADDRESS: United Engineering Center
345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800

DIRECTOR: Zwoyer, E. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1867

MISSION: To advance the profession by improving education and engineering techniques; by stimulating, coordinating, and promoting an increased research effort; and by obtaining a better understanding of the role of the civil engineer in society.

SUBJECT SCOPE: Air transport; construction; engineering mechanics; highways; hydraulics; irrigation and drainage; pipelines; power; sanitary engineering; soil mechanics and foundations; structures; surveying and mapping; urban planning and development; waterways, harbors, and coastal engineering; oceanography; urban transportation; and environmental control.

MAJOR SUBJECT TERMS: Airport construction; Airport facilities; Airport lighting; Construction materials; Construction practices; Environmental effects; Fuel farm facilities/operations; Ground recovery facilities; Hydraulic engineering; Landing aids; Lubricants; Maintenance facilities; Propellants and fuels; Safety analysis of equipment; Safety regulations; Structural engineering; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research councils on underground construction, structural plastics, urban water resources, and recommendations of standards.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zwoyer, E.</td>
<td>Civil engineering</td>
<td>(212) 752-6800</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstracts</td>
<td>1970 - present</td>
<td>5,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

May 1973
AMERICAN SOCIETY OF LUBRICATION ENGINEERS (ASLE)

ADDRESS: 838 Busse Highway
Park Ridge, IL
60068

TELEPHONE: (312) 825-5536

DIRECTOR: West, C. H.

MISSION: To promote the advancement of the knowledge and application of the science of lubrication and related arts and sciences.

SUBJECT SCOPE: Aerospace, forest industries, railroads, mining, machine tools, cleaners and solvents, nonferrous metals, petroleum, chemicals, steel, power generation, bearings, engine lubrication, gears, hydraulics, pollution control, solid lubes, and seals.

MAJOR SUBJECT TERMS: Chemical characteristics; Couplings; Hazardous characteristics; Hydraulic fluids; Lubricants; Physical characteristics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>West, C. H.</td>
<td>Lubricants; Materials</td>
<td>(312) 825-5536</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ADDRESS: United Engineering Center
354 E. 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800

DIRECTOR: Finch, R. B. (Dr)

YEAR INFORMATION SOURCE BEGAN: 1880

MISSION: To provide a continuing education to mechanical engineers, the industries they serve, and society in general, through the development and dissemination of technical information; to develop mechanical standards, codes, safety procedures and operating principles; to encourage the personal and professional development of practicing and student engineers; to aid members of the engineering profession in maintaining a high level of ethical conduct.

SUBJECT SCOPE: Air pollution; applied mechanics; automatic control; aerospace; biomechanical and human factors; design engineering; diesel and gas engine power; energetics; fluids engineering; fuels; gas turbines; heat transfer; incinerators; lubrication; management; materials handling engineering; materials; nuclear engineering; ocean technology; petroleum; plant engineering and maintenance; power; pressure vessels and piping; process industries; production engineering; rail transportation; safety; technology and society; solar energy; textile engineering.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsors engineering research projects by industrial research organizations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No., and Ext.(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finch, R. B.</td>
<td>Mechanical engineering</td>
<td>(212) 752-6800</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; translations.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973
AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

ADDRESS: 850 Busse Highway
Park Ridge, IL
60068

TELEPHONE: (312) 692-4121

DIRECTOR: Bonner, B. G.

YEAR INFORMATION SOURCE BEGAN: 1911

MISSION: To promote the advancement of the safety profession and to contribute to the well-being and professional development of its members.

SUBJECT SCOPE: Accident and loss-producing conditions and practices, accident analysis, safety design recommendations.

MAJOR SUBJECT TERMS: Accidents; Boilers; Cryogenic systems hazards; Fire prevention; Fire protection; Furnaces; Hazard detection systems; Hazardous materials; Hazardous processes; Health hazards; Human factors design; Machinery safety; Man-machine hazards; Personnel training; Pressure; Safety analysis of equipment; Safety engineering; Safety laws; Safety practices; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Develops accident prevention and loss control information for those directly involved with an accident problem.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonner, B. G.</td>
<td>Safety engineering</td>
<td>(312) 692-4121</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOOLDINGS: Standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973
AMERICAN WELDING SOCIETY (AWS)

ADDRESS: 2501 NW 7th Street
            Miami, FL
            33125

TELEPHONE: (305) 642-7090

DIRECTOR: Fenton, E. A.

YEAR INFORMATION SOURCE BEGAN: 1919

MISSION: To acquire and make available authentic and up-to-date information on welding, cutting, and the allied processes; to further education in the field of welding; to provide members with opportunities for interchange of ideas, knowledge, and experience; to encourage research in the science and art of welding; and to encourage the development of new uses for and methods of welding.

SUBJECT SCOPE: Filler metal specifications, safety, resistance welding, thermal spraying, brazing and soldering; buildings, bridges, ships, storage tanks, piping, aerospace, and automotive applications; definitions, symbols, and testing.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Air pollutants; Air pollution control; Applied forces (stresses); Corrosion properties; Environmental degradation; Fabrication processes; Failure mechanisms; Health hazards; Industrial safety and health; Joining methods; Mechanical properties; Mechanics of structural failure; Metallurgical processes; Personal protective equipment; Physical properties; Production limitations; Protective clothing; Safety laws; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fenton, E. A.</td>
<td>Metallurgy</td>
<td>(305) 642-7090</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books: 2,000; reports and reprints: 6,000; periodicals: 300; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; bibliographic abstracts.

OTHER SERVICES: Accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

May 1973
ARMED FORCES INSTITUTE OF PATHOLOGY, AEROSPACE BRANCH (AFIP)

ADDRESS: 14th Street and Alaska Avenue, NW
Washington, DC 20306

TELEPHONE: (202) 576-3232

DIRECTOR: McMeekin, R. R.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To collect information regarding the correlation between pathological evidence and causative factors of aircraft accidents, to initiate pathological investigations, to improve flight safety records, to investigate pathological results of flight stresses and long-duration exposure to environments.

SUBJECT SCOPE: Basic sciences, general pathology, military environmental pathology, dental and oral pathology, veterinary pathology, geographic pathology, radiopathology, education, and medical research.

MAJOR SUBJECT TERMS: Accidents; Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Human factors; Medical sciences; Physiology; Psychology; Radiation physiological effects.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports in-house research projects on the pathological changes associated with recurrent exposure to the effects of high altitude, neoplasms, and myocarditis in aircraft accidents; dental identification; and the role of computers in reconstructing fatal injury patterns.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McMeekin, R. R.</td>
<td>Medical sciences</td>
<td>(202) 576-3232</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; periodicals/journals.

HOLDINGS: Books; abstracts/indexes; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (AFRRI)

ADDRESS: National Naval Medical Center
Bethesda, MD
20014

TELEPHONE: (301) 295-0428

DIRECTOR: Varon, M. I.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Nuclear Agency)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To conduct scientific research in the field of radiobiology and related matters essential to the medical support of the US military services, the national welfare, and the well-being of mankind.

SUBJECT SCOPE: Biological and medical effects of nuclear weapons, medical hazards associated with nuclear weapons systems, incidents and accidents, and radiological safety.

MAJOR SUBJECT TERMS: Bioinstrumentation; Dangerous industrial radiation; Ionizing radiation; Personal protective equipment; Protective clothing; Radiation; Radiation belts; Radiation detection; Radiation monitoring; Radiation physiological effects; Radioisotopes applications; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Neurobiology (toxicology of radiation and drugs), brain functions and head injuries.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varon, M. I.</td>
<td>Biological sciences</td>
<td>(301) 295-0428</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 2, total 3; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books: 5,000; abstracts/indexes: 25; reports and reprints: 100,000; periodicals: 200. Total number of titles: 105,225; range of years: 1963 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Ackronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLARS</td>
<td>Medical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOD</td>
<td>Nuclear effects</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community; ad hoc permission.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
ADDRESS: US Army Materiel Command
Aberdeen Proving Ground, MD
21005

TELEPHONE: (301) 278-3981

DIRECTOR: Eichelberger, R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1938

MISSION: To develop and provide to other Army agencies the basic tools for the design and evaluation of weapon systems; to innovate the results of BRL research into feasible concepts for advanced weapon systems or components; to provide consultation services to weapons developers and solve specific problems related to the development of systems or arising during the field use of completed systems.

SUBJECT SCOPE: Applied mathematics; interior, exterior, and terminal ballistics; radiation; vulnerability of military targets, weapon systems, munitions and other appropriate equipment; concepts analysis.

MAJOR SUBJECT TERMS: Acceleration/deceleration; Aerodynamic flow; Aerodynamic friction; Buffeting; Combustion products; Electromagnetic disturbances; Electromagnetic radiation; Environmental influences; Fire and explosion chemistry; Fire and explosion dynamics; Fire, explosion, and detonations; Ionizing radiation; Noise; Nuclear blast; Nuclear radiation; Operational mode; Pressure seals; Pressure waves; Pyrotechnics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No., and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eichelberger, R.</td>
<td>Ballistics</td>
<td>(301) 278-3981</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

May 1973
ARMY MATERIALS AND MECHANICS RESEARCH CENTER (AMMRC)

ADDRESS: Arsenal Street
Watertown, MA
02172

TELEPHONE: (617) 926-1900

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To manage and conduct basic and applied research on materials such as metals, ceramics, polymers, and composites for development of new and improved components of Army weapons systems and to provide support to engineering mechanics elements of commodity commands.

SUBJECT SCOPE: Materials, properties and characteristics, energy and forces affecting equilibrium, deformation, and motion of materials and structures, electron momenta, radiation transfer, ceramics, polymers and fibers, theoretical and applied mechanics.

MAJOR SUBJECT TERMS: Failure mechanisms; Fastening methods; Fatigue (materials); Ferrous metals; Iron; Iron alloys; Joining methods; Material properties; Materials evaluation; Materials research; Mechanical engineering; Mechanics; Mechanics of structural failure; Metals and alloys; Steel; Steel alloys; Stress/strain analysis; Structural dynamics; Structural materials; Test facilities.

STAFF: Full-time - professional 272, nonprofessional 628, total 900; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
ATOMIC AND MOLECULAR IONIZATION PROCESSES DATA CENTER

ADDRESS: Institute for Materials Research
National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2792

DIRECTOR: Rosenstock, H. M. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect and critically evaluate numerical data on the energetics of gaseous ionization.

SUBJECT SCOPE: Gaseous ionization, appearance potentials, properties of ionic states, vacuum ultraviolet spectroscopy, inelastic electron scattering, photoelectron spectroscopy, mass spectrometry, charge exchange, theoretical chemistry.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Dissociation; Electromagnetic phenomena; Ionizing radiation; Molecular structure; Nuclear physics; Physics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosenstock, H. M.</td>
<td>Atomic physics</td>
<td>(301) 921-2792</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints: 2,000; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified materials).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
ATOMIC ENERGY LEVELS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC 20234

TELEPHONE: (301) 921-3540

DIRECTOR: Martin, W. C. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To provide critical appraisal of data on atomic spectra; classification of spectral lines and determination of atomic energy levels; a central reference source for energy level data and coordination of experimental work in the limited number of laboratories working in this field.

SUBJECT SCOPE: Atomic energy levels, electron configurations, quantum numbers, magnetic splitting factors, ionization potentials, atomic spectra.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Physical chemistry; Physics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin, W. C.</td>
<td>Atomic physics</td>
<td>(301) 921-3540</td>
</tr>
<tr>
<td>Haqan, L.</td>
<td>Physical chemistry</td>
<td>(301) 921-3540</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

May 1973
ATOMIC TRANSITION PROBABILITIES DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-3374

DIRECTOR: Wiese, W. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To collect and catalog all relevant literature, to extract and analyze the numerical data, and to prepare and publish bibliographies and tables of "best" atomic transition probabilities.

SUBJECT SCOPE: Atomic transition probabilities, numerical values for specific transitions, and atomic physics.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Electromagnetic radiation; Ionizing radiation; Radiation detection; Radiation physiological effects; Radiation protection.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts critical evaluations on selected elements, currently including the first 20 elements (hydrogen through calcium), barium I and II, and cadmium through nickel.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiese, W. L.</td>
<td>Atomic physics</td>
<td>(301)921-2071</td>
</tr>
<tr>
<td>Fuhr, J. R.</td>
<td>Atomic physics</td>
<td>(301)921-3374</td>
</tr>
<tr>
<td>Martin, G. A.</td>
<td>Atomic physics</td>
<td>(301)921-3374</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 1, total 3; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications. Total number of titles: 2,000; range of years total: 1916 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
BATTERY INFORMATION INDEX AND ENERGY STORAGE INFORMATION CENTER (BII)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Room 11-1074A
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1832; TT (810) 482-1679

DIRECTOR: Johnson, D. M.

PARENT–SPONSOR–HOST AFFILIATION: Battelle Memorial Institute

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To meet the information needs of Wright-Patterson Air Force Base in the field of battery technology.

SUBJECT SCOPE: Sealed aerospace batteries; nickel-cadmium, silver-zinc, silver-cadmium, lithium, and zinc-air batteries; thermal analyses; electrolyte analysis; electrode preparation; accelerated life testing; battery cycling data and apparatus; failure mechanism and failure analyses procedures; hydrogen technology; electrochemical energy; water electrolysis.

MAJOR SUBJECT TERMS: Batteries; Electrolysis; Electricity; Electrical/electronic engineering; Energy conversion; Hydrogen; Power sources.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development in water electrolysis and electrochemical aspects of hydrogen technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnson, D. M.</td>
<td>Energy conversion; Batteries</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; newsletters/trade literature; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS-70 Battelle Automated Search Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Interlibrary loans; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973
BIOSCIENCES INFORMATION SERVICE (BIOSIS)

ADDRESS: 2100 Arch Street
Philadelphia, PA 19103

TELEPHONE: (215) 568-4016

DIRECTOR: Parkins, P. V.

YEAR INFORMATION SOURCE BEGAN: 1926

MISSION: To provide for the information needs of biologists throughout the world, and to disseminate bioscientific research literature.

SUBJECT SCOPE: Life sciences, including medical, biological, and behavioral sciences (mycology, entomology, and health effects of environmental pollutants).

MAJOR SUBJECT TERMS: Crew considerations; Dangerous industrial radiation; Hazards; Human factors; Ionizing radiation; Life support; Life support systems; Man-machine hazards; Safety standards; Shielding; Toxic gas; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parkins, P. V.</td>
<td>Biological sciences</td>
<td>(215) 568-4016</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional -, nonprofessional -, total 170; part-time - professional -, nonprofessional -, total 350.

INTERNAL PUBLICATIONS: Abstracts; indexes; Reference lists; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes: 2,000,000; reports and reprints: 240,000; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIC Subject Index for Biological Abstracts</td>
<td>Life sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Profiles</td>
<td>Current Literature Alerting Search Service</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
BUREAU OF AVIATION SAFETY

ADDRESS: National Transportation Safety Board
Washington, DC
20591

TELEPHONE: (202) 426-3900

DIRECTOR: Miller, C. O.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (National Transportation Safety Board)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To promote the advancement of safety in aviation by investigating accidents, holding public hearings, analyzing and evaluating accident reports, making determinations of probable causes; preparing and distributing accident data; and preparing and performing technical and statistical studies directed toward a continuing elevation of the safety level.

SUBJECT SCOPE: Aircraft accident analyses and accident prevention.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Safety analysis; Safety engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Studies aviation safety problem areas.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miller, C. O.</td>
<td>Aviation safety</td>
<td>(202) 426-3900</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLARAD</td>
<td>System of On-Line Analysis and Retrieval of Accident Data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
BUREAU OF EXPLOSIVES

ADDRESS: 1920 L Street, NW
Washington, DC
20036

TELEPHONE: (202) 293-4048

PARENT-SPONSOR-HOST AFFILIATION: Association of American Railroads

YEAR INFORMATION SOURCE BEGAN: 1905

MISSION: To provide expert and impartial liaison between shippers and the Department of Transportation, provide shippers with a reliable source of information regarding DOT packaging requirements and regulations; act as a central repository to ensure international regulatory uniformity; approve special packages for shipment; provide advice and educational programs on packaging and loading problems.

SUBJECT SCOPE: The safe handling, packaging, transporting, storing, and disposing of explosives and other flammable or dangerous materials.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Cryogenic fluids transportation; Explosions; Explosive devices; Explosive devices tests; Explosive materials; Explosive materials tests; Explosives; Explosives disposal; Explosives safety; Fire extinguishment; Fire fighting; Fire hazard evaluation; Flammability testing; Fuel transportation; Hazardous materials classification; Munitions; Shipping regulations; Transportation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schultz, C. W.</td>
<td>Chemistry; Materials</td>
<td>(202) 293-4071</td>
</tr>
<tr>
<td>Garland, C. A.</td>
<td>Inspection</td>
<td>(202) 293-4077</td>
</tr>
<tr>
<td>Krauskopp, W. B.</td>
<td>Operations research</td>
<td>(202) 293-4075</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 25, nonprofessional 9, total 34; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; standards and specifications.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; analytical studies; advisory and consulting services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
BUREAU OF MOTOR CARRIER SAFETY (BMCS)

ADDRESS: Federal Highway Administration
400 7th Street, SW
Washington, DC
20590

TELEPHONE: (202) 426-1790

DIRECTOR: Kaye, R. A.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (Federal Highway Administration)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To promulgate and administer the Motor Carrier Safety Regulations and the Hazardous Materials Regulations governing trucks and buses operating in interstate or foreign commerce, including for-hire and private carriers of property, for-hire carriers of passengers, and carriers of agricultural commodities, livestock, and horticultural commodities engaged in interstate and foreign commerce.

SUBJECT SCOPE: Accident prevention, safety analysis, vehicle inspection.

MAJOR SUBJECT TERMS: Accident prevention; Cryogenic fluids handling; Cryogenic fluids transportation; Highway safety; Safety analysis; Safety laws; Shipping procedures; Shipping regulations; Transportation engineering; Transportation procedures; Transportation regulations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Studies truck and bus safety performance, vehicular stresses leading to the degradation of driving, and interrelationships among fatigue, hours of service, and safety of operations of truck and bus drivers; develops written, auditory, and visual tests for drivers and driver training program curricula.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaye, R. A.</td>
<td>Safety analysis; Highway safety</td>
<td>(202) 426-1790</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials

HOLDINGS: Reports and reprints; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; conferences/symposia.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
BUREAU OF RADILOGICAL HEALTH (BRH)

ADDRESS: US Department of Health, Education, and Welfare Public Health Service
Rockville, MD
20852

TELEPHONE: (301) 443-3544

DIRECTOR: Villforth, J. C.


YEAR INFORMATION SOURCE BEGAN: 1959

MISSION: To reduce unnecessary human exposure to man-made radiation from electronic devices; to control radiation used in medicine; to control occupational exposure to radiation; to support research, technical assistance, and training programs; and to provide assistance to state and local radiation control programs.

SUBJECT SCOPE: Electronic product radiation control, standards, x-ray exposure, product surveillance, compliance, biological effects of radiation, exposure, radiological health sciences, education, and consumer radiation protection.

MAJOR SUBJECT TERMS: Electromagnetic radiation; Ionizing radiation; Protective clothing; Radiation detection; Radiation protection; Radiation tolerance levels.

RESEARCH AND DEVELOPMENT ACTIVITIES: Develops equipment, techniques, and standards to reduce radiation to patients, operators, and the public.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Villforth, J. C.</td>
<td>Radiation chemistry</td>
<td>(301) 443-3544</td>
</tr>
</tbody>
</table>

STAFF: Full-time — professional —, nonprofessional —, total 420.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; newsletters/trade literature; standards and specifications.

HOLDINGS: Books: 5,000; abstracts/indexes: 6; reports and reprints: 5,000; periodicals: 500; reference lists/bibliographies: 50; standards and specifications: 100. Total number of titles: 10,656; range of years of total: 1958 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
CHEMICAL KINETICS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2581

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

SUBJECT SCOPE: Chemical kinetics; photochemistry; energy transfer; elastic scattering.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical properties; Chemistry; Energy conversion; Inorganic chemistry; Kinetics; Organic chemistry; Thermochemical properties; Thermodynamic data; Thermodynamic properties; Thermodynamics.

SPECIAL SCOPE FEATURES: Excludes heterogeneous catalysis.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; reference lists/bibliographies.

HOOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
CHEMICAL PROPULSION INFORMATION AGENCY (CPIA)

ADDRESS: Johns Hopkins University Applied Physics Laboratory
8621 Georgia Avenue
Silver Spring, MD
20910

TELEPHONE: (301) 589-7700 x560

DIRECTOR: Nichols, P. L. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense and the Johns Hopkins University Applied Physics Laboratory

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To acquire, compile, analyze, and disseminate information pertinent to chemical rocket propulsion; to provide technical and administrative support to the joint Army, Navy, NASA, and Air Force (JANNAF) Interagency Propulsion Committee.

SUBJECT SCOPE: Chemical rocket propulsion, including liquid, solid, hybrid, and air-breathing systems; rocket motors; combustion; exhaust plume technology; operational serviceability; performance standardization; propellant characterization; safety and environmental protection; and structures and mechanical behavior.

MAJOR SUBJECT TERMS: Bipropellants; Chemical characteristics; Deflagrations; Engine malfunctions; Fire; Fuels; Hazardous characteristics; Hydraulic fluids; Hypergolic fuels; Jet propulsion fuels; Liquid propellants; Lubricants; Material types; Physical characteristics; Propellants; Propulsion systems; Propulsion types.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nichols, P. L.</td>
<td>Chemical propulsion</td>
<td>(301) 589-7700</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 11, nonprofessional 12, total 23; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications. Total number of titles: 45,000; range of years total: 1946 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973
CHEMICAL THERMODYNAMICS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2773

DIRECTOR: Wagman, D.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1940

MISSION: To prepare tables of evaluative data on the chemical thermodynamics of chemical substances.

SUBJECT SCOPE: Thermochemical and thermophysical properties of pure chemical substances in gas, liquid, and solid phases, and their aqueous solutions.

MAJOR SUBJECT TERMS: Thermochemical properties; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wagman, D.</td>
<td>Thermodynamic properties</td>
<td>(301) 921-2773</td>
</tr>
<tr>
<td>Evans, W. H.</td>
<td>Thermodynamic properties</td>
<td>(301) 921-2108</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 5, nonprofessional 5, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals. Total number of titles: 60,000.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

USER QUALIFICATIONS: Government employees; Government contractors.

May 1973
CHLORINE INSTITUTE (CI)

ADDRESS: 342 Madison Avenue
New York, NY 10017

TELEPHONE: (212) 682-4324

DIRECTOR: Mitchell, R. L.

YEAR INFORMATION SOURCE BEGAN: 1924

MISSION: To act as the information center of the chlorine industry, to prepare design recommendations and specifications, to consult and cooperate with producers and equipment-handling manufacturers, to act as liaison with Federal and other regulatory bodies and with trade and professional groups, to promote safety practices through technical services and other means, and to coordinate industry efforts and experiences.

SUBJECT SCOPE: Chlorine and related areas.

MAJOR SUBJECT TERMS: Chemical properties; Compressed gases; Corrosives; Dangerous materials disposal; Handling procedures; Hazardous materials; Hazards; Liquefied gases; Physical properties; Safety data sheets; Safety practices; Shipping procedures; Shipping regulations; Storage procedures; Toxic substances; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitchell, R. L.</td>
<td>Chlorine technology</td>
<td>(212) 682-4324</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposia.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
CIVIL AEROMEDICAL INSTITUTE (CAMI)

ADDRESS: Federal Aviation Administration
PO Box 25082
Oklahoma City, OK
72125

DIRECTOR: Dille, J. R. (Dr)

TELEPHONE: (405) 686-4806

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (Federal Aviation Administration)

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To promote aviation safety.

SUBJECT SCOPE: Aviation medicine, including aviation toxicology, aviation psychology, stress physiology, protection and survival; aeromedical certification, education, and clinical medicine.

MAJOR SUBJECT TERMS: Accident analysis; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Man-machine hazards; Personnel certification; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dille, J. R.</td>
<td>Aerospace medicine</td>
<td>(405) 686-4806</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 28, nonprofessional 61, total 89; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
COATING AND CHEMICAL LABORATORY (C and CL)

ADDRESS: US Army Mobility Equipment Research and Development Center
Aberdeen Proving Grounds, MD
21005

TELEPHONE: (301) 278-3606

DIRECTOR: Amalung, H. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1956

MISSION: To coordinate the US Army Materiel Command research program in fuels, lubricants, and related materials; to conduct research and engineering investigations in its assigned fields; to provide technical assistance to Headquarters, USAMC, and major subordinate commands and activities; to participate in the standardization and industrial preparedness programs within its assigned fields.

SUBJECT SCOPE: Fuels, lubricants, and related materials; automotive chemicals; paint, varnish, and lacquers; cleaning, and corrosion.

MAJOR SUBJECT TERMS: Cleaning; Coatings; Compatibility; Corrosion; Corrosion properties; Corrosives; Fire; Fire retardants; Fuels; Hydraulic fluids; Lubricants.

RESEARCH AND DEVELOPMENT ACTIVITIES: Responsible for research into organic and semi-organic coatings, conversion coatings, cleaners, automotive chemicals, fuels, and lubricants.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amalung, H. L.</td>
<td>Lubricants; Materials</td>
<td>(301) 278-3606</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 35, nonprofessional 9, total 44; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; statistical compilations.

REFERENCE AND QUERY SERVICES: Analytical studies.

May 1973
COMBUSTION INSTITUTE

ADDRESS: 986 Union Trust Building
Pittsburgh, PA
15219

TELEPHONE: (412)391-1366

DIRECTOR: Barnes, H. G.

YEAR INFORMATION SOURCE BEGAN: 1954

MISSION: To promote the science and application of combustion and to disseminate knowledge in this field.

SUBJECT SCOPE: Combustion, emission, fuel composition, disaster hazards, fire research, propellants, engine performances, burning velocities, chemical effects of sound propagation, modeling, flammability limits, ignition, and oxidation.

MAJOR SUBJECT TERMS: Aircraft fuels; Chemical hazards; Cryogenic fluids; Cryogenic systems; Fire protection; Cryogenic systems hazards; Engine malfunctions; Explosives; Explosives safety; Fire prevention; Fire protection; Fuel storage; Fueling operations; Hazardous materials; Heat dissipation; Hydraulic fluids; Launch operations; Materials properties; Propellants and fuels; Pyrotechnic materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Collects and disseminates results of combustion research.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnes, H. G.</td>
<td>Combustion</td>
<td>(412)391-1366</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; referrals.

OTHER SERVICES: Conferences/symposia.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
COMMITTEE ON FIRE RESEARCH

ADDRESS: Division of Engineering
2101 Constitution Avenue
Washington, DC
20418

TELEPHONE: (202) 961-1486

DIRECTOR: Grisamore, N. T. (Dr)

PARENT-SPONSOR-MOST AFFILIATION: National Academy of Sciences (National Research Council)

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To stimulate and advise on research directed toward the development of new knowledge and new techniques that may aid in preventing or controlling wartime and peacetime fires.

SUBJECT SCOPE: Fire research and related subjects.

MAJOR SUBJECT TERMS: Engine malfunctions; Explosives; Fire; Fire, explosion, and detonations; Fire fighting; Fire fighting services; Fire prevention; Fire protection; Flammables; Temperature.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grisamore, N. T.</td>
<td>Fire</td>
<td>(202) 961-1486</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973
COMPRESSED GAS ASSOCIATION, INC. (CGA)

ADDRESS: 500 Fifth Avenue
New York, NY
10036

TELEPHONE: (212) 524-4796

DIRECTOR: Lenhard, R. E.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: To provide, develop, and coordinate technical activities in the compressed gas industries, including end uses of products, in the interest of safety and efficiency, and to serve, to the fullest extent, the best interest of the public and industry.

SUBJECT SCOPE: Compressed gases; cryogenic fluid measurement; atmospheric, chemical, and natural gases in gaseous, liquid, or solid form; medical equipment; materials; containers used for compressed gases; metallurgy.

MAJOR SUBJECT TERMS: Compressed gases; Safety; Dangerous materials; Dangerous materials disposal; Explosives; Flammables; Fuel farm facilities/operations; Handling procedures; Liquefied gases; Quantity/distance criteria; Shipping procedures; Shipping regulations; Transportation procedures; Transportation regulations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenhard, R. E.</td>
<td>Compressed gases</td>
<td>(212) 524-4796</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks and manuals; technical reports; newsletters and trade literature; conference papers; standards and specifications.

HOLDINGS: Books; reports and reprints; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Conferences and symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
COMPUTER SEARCH CENTER (CSC)

ADDRESS: IIT Research Institute, Information Sciences
10 West 35th Street
Chicago, IL
60616

TELEPHONE: (312)225-9630 x4918

DIRECTOR: Schipma, P. B.

PARENT-SPONSOR-MOST AFFILIATION: Illinois Institute of Technology Research Institute

YEAR INFORMATION SOURCE BEGAN: 1936

MISSION: To provide research, development, and design services to industry and government.

SUBJECT SCOPE: Physical and biological sciences, including metals, ceramics, chemistry, computer sciences, electronics, engineering mechanics, life sciences, materials, medical engineering, metals, physics, law enforcement, and management.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Affiliated with IIT Research Institute.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schipma, P. B.</td>
<td>Technical information</td>
<td>(312)225-9630 x4918</td>
</tr>
<tr>
<td>Larson, R.</td>
<td>Chemistry</td>
<td>(312)225-9630 x5028</td>
</tr>
<tr>
<td>Llewellyn, P.</td>
<td>Technical information</td>
<td>(312)225-9630 x5031</td>
</tr>
<tr>
<td>Stewart, A.</td>
<td>Engineering</td>
<td>(312)225-9630 x5364</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 10, nonprofessional 1, total 11; part-time - professional 8, nonprofessional 0, total 8.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWIC</td>
<td>Indexing program</td>
<td>1969 - present</td>
<td>1,000,000</td>
</tr>
<tr>
<td>CA</td>
<td>Chemical Condensates</td>
<td>1969 - 1971</td>
<td>500,000</td>
</tr>
<tr>
<td>BIO</td>
<td>Biological Abstracts Previews</td>
<td>1971 - present</td>
<td>250,000</td>
</tr>
<tr>
<td>COMPENDEX</td>
<td>Engineering Index</td>
<td>1970 - present</td>
<td>50,000</td>
</tr>
<tr>
<td>FSTA</td>
<td>Food Science and Technology</td>
<td>1970 - present</td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposia.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
CONTROLLED FUSION ATOMIC DATA CENTER (CFADC)

ADDRESS: Building 9201-2
PO Box Y
Oak Ridge, TN
37830

TELEPHONE: (613) 483-8611 x3-7558

DIRECTOR: Barnett, C. F.


MISSION: To store and retrieve information on atomic and molecular processes, to critically evaluate published data and disseminate compilations, and to highlight the areas of conflict or omission in data and encourage experimental and theoretical work.

SUBJECT SCOPE: Heavy particles and their interactions, particle interactions with electric and magnetic fields, and particle penetration into macroscopic matter; properties of atomic and molecular structure; transport phenomena in gases.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Electric fields; Energy conversion; Magnetic fields; Molecular structure; Nuclear energy; Nuclear engineering; Nuclear facilities; Nuclear fuels; Nuclear instrumentation; Nuclear physics; Nuclear power; Nuclear reactor applications; Physics; Plasma physics; Power sources; Reactors; State-of-the-art reviews.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnett, C. F.</td>
<td>Atomic structure</td>
<td>(613) 483-8611</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 0, nonprofessional 1, total 1; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
CONVAIR AEROSPACE DIVISION RESEARCH LIBRARY

ADDRESS: General Dynamics
PO Box 80986
San Diego, CA 92138

TELEPHONE: (714) 277-8900 x1073

DIRECTOR: Sweeney, U. J.

PARENT-SPONSOR-HOST AFFILIATION: General Dynamics

SUBJECT SCOPE: Aerospace and aeronautical sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No., Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweeney, U. J.</td>
<td>Technical information</td>
<td>(714) 277-8900 x1073</td>
</tr>
<tr>
<td>Blair, K. G.</td>
<td>Technical information</td>
<td>(714) 277-8900 x1347</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 5, nonprofessional 4, total 9; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; indexes; technical reports; statistical compilations; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 40,000; reports and reprints: 1,500,000; periodicals: 500; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRISP</td>
<td>Computer Retrieved Information</td>
<td>1962 - present</td>
<td>1,000,000 Projects</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Accession of new acquisition lists; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
COPPER DATA CENTER

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH 43201

TELEPHONE: (614) 299-3151 x 1467; TT (810) 482-1679

DIRECTOR: Black, W. T.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and Copper Development Association, Inc.

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To provide users of copper with up-to-date technical data and information of the metal, its alloys, and compounds.

SUBJECT SCOPE: Copper technology, from metal refining through the end-use performance of wrought and cast mill products (plate, sheet, strip, rod, bar, wire, extrusions, tube, castings, and forgings); powder metals; iron and steel with copper as an alloying element; insulation materials and processes; brass and bronze; and copper compounds.

MAJOR SUBJECT TERMS: Abrasives; Brass; Bronze; Coatings; Colorings; Composites; Copper alloys; Corrosion; Couplings; Cupro-beryllium alloys; Cupro-nickel alloys; Fasteners; Finishes; Industrial safety and health; Joints; Machinery safety; Mining; Monel alloys; Packaging; Solvents.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promotes research on copper and associated technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black, W. T.</td>
<td>Copper technology</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS</td>
<td>Battelle Automated Search Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation; translations.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
CRYOGENIC DATA CENTER (CDC)

ADDRESS: Institute for Basic Standards
275.02
Boulder, CO
80302

TELEPHONE: (303) 499-1000 x3527

DIRECTOR: Olien, N. A.


YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To critically evaluate and compile data on the thermodynamic, transport, and other thermophysical properties of the principal fluids used at low temperatures; to operate an information storage and retrieval system for the properties of materials at low temperatures.

SUBJECT SCOPE: Properties of metallic elements, selected alloys, and element dielectrics; thermodynamic properties of fluids; transport properties of fluids; thermophysical properties; low temperature physics and chemistry; and cryogenic engineering.

MAJOR SUBJECT TERMS: Chemical characteristics; Cryogenic safety; Cubical expansion; Liquid propellants; Nitrogen; Oxygen; Physical characteristics; Specific heat; Temperature; Thermal conductivity; Thermal properties; Thermodynamic properties.

RESEARCH AND DEVELOPMENT ACTIVITIES: Prepares state-of-the-art reviews and produces standard reference data on the thermodynamic and transport properties of the technically important gases. Current tasks include helium, hydrogen, methane, and fluid mixtures.

SPECIAL SCOPE FEATURES: Properties of fluids; liquefied natural gas; cryogenic fluid safety; superconductivity.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olien, N. A.</td>
<td>Cryogenic safety</td>
<td>(303) 499-1000 x3257</td>
</tr>
<tr>
<td>Roder, H. M.</td>
<td>Oxygen</td>
<td>(303) 499-1000 x3528</td>
</tr>
<tr>
<td>McCarty, R. D.</td>
<td>Hydrogen; Helium</td>
<td>(303) 499-1000 x3386</td>
</tr>
<tr>
<td>Hanley, H. J. M.</td>
<td>Transport properties</td>
<td>(303) 499-1000 x3320</td>
</tr>
</tbody>
</table>


INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 1,000; abstracts/indexes: 200; reports and reprints: 30,000; periodicals: 50,000; reference lists/bibliographies: 2,000; standards and specifications: 500; graphics/tables: 500; statistical compilations: 800. Total number of titles: 85,000; range of years of total: 1900 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryogenic Data Center internally indexed</td>
<td>1900 – present</td>
<td>83,000 documents</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; conferences/symposiums.
CRYOGENIC DATA CENTER (CDC)

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
CRYSTAL DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2900

DIRECTOR: Ondik, H. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To compile data on crystals in preparation for publication.

SUBJECT SCOPE: Crystallography, including cell dimensions and space group; identification of crystalline substances by single-crystal data.

MAJOR SUBJECT TERMS: Crystallography.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ondik, H.</td>
<td>Crystals</td>
<td>(301) 921-2900</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 4, nonprofessional 0, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
DATA CENTER ON ATOMIC LINE SHAPES AND SHIFTS

ADDRESS: National Bureau of Standards
Washington, DC
20234

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

MISSION: To collect and catalog all literature relevant to the broadening and shift of atomic spectral lines; to prepare and publish bibliographies and critical reviews of various topics in atomic line broadening.

SUBJECT SCOPE: Atomic physics, plasma physics, astrophysics.

MAJOR SUBJECT TERMS: Atomic physics; Atomic structure; Plasma physics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiese, W. L.</td>
<td>Atomic physics</td>
<td>(301) 921-2071</td>
</tr>
<tr>
<td>Fuhr, J. R.</td>
<td>Atomic physics</td>
<td>(301) 921-3374</td>
</tr>
<tr>
<td>Martin, G. A.</td>
<td>Atomic physics</td>
<td>(301) 921-3374</td>
</tr>
<tr>
<td>Roszman, L. J.</td>
<td>Atomic physics</td>
<td>(301) 921-2071</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables. Total number of titles: 1,600; range of years of total: 1899 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
DEFENCE AND CIVIL INSTITUTE OF ENVIRONMENTAL MEDICINE (DCIEN)

ADDRESS: PO Box 2000
Downsview, Ontario
Canada

TELEPHONE: (416) 633-4240

DIRECTOR: Chamberlain, J. E.

PARENT-SPONSOR-HOST AFFILIATION: Defence Research Board, Canada

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To conduct basic and applied research and development on the effectiveness of man in various environments.

SUBJECT SCOPE: Behavioral sciences, biosciences, operational life support, clearance diving trials and development, clinical medicine, human effectiveness in hyperbaric environments, human response and adaptation to adverse environments, human perception and performance, human engineering of man-machine systems, and human effectiveness in transportation systems, including safety and survival equipment.

MAJOR SUBJECT TERMS: Aircraft communications; Crew considerations; Environmental degradation; Fire fighting clothing; Health hazards; Ionizing radiation; Life support systems; Noise; Personal protective equipment; Physiological effects; Radiation physiological effects; Shielding; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Includes four research, development, and operational support divisions which participate in the scientific, technical, and field-oriented programs of the Institute.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamberlain, J. E.</td>
<td>Biological sciences</td>
<td>(416) 633-4240</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 20,000; periodicals: 300; reference lists/bibliographies: 100; statistical compilations; films and slides: 200. Total number of titles: 28,620; range of years of total: 1950 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 20,000; periodicals: 300; reference lists/bibliographies: 100; statistical compilations; films and slides: 200. Total number of titles: 28,620; range of years of total: 1950 to present.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
DEFENSE DOCUMENTATION CENTER (DDC)

ADDRESS: Cameron Station
Alexandria, VA
22314

DIRECTOR: Stegmaier, R. B. (Dr)

TELEPHONE: (703) 274-7633

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Supply Agency)

MISSION: To collect, process, announce, retrieve, and supply formally recorded technical information in all of the scientific disciplines and engineering fields of interest to the Department of Defense.

SUBJECT SCOPE: Physics; electronics and electrical engineering; navigation, communications, detection, and countermeasures; biological and medical sciences; mechanical, industrial, civil, and marine engineering; military sciences; behavioral and social sciences; materials; ordnance; chemistry; aeronautics; propulsion and fuels; mathematical sciences; earth sciences and oceanography; methods and equipment; atmospheric sciences; missile technology; space technology; astronomy and astrophysics; and agriculture; energy conversion (nonpropulsive); and nuclear science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports all DoD research, development, and evaluation activities as the centralized technical documentation service of DoD.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stegmaier, R. B.</td>
<td>Technical information</td>
<td>(703) 274-7633</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 151, nonprofessional 231, total 382; part-time - professional 0, nonprofessional 0, total 0.

HOLDINGS: Abstracts/indexes; reports and reprints: 1,000,000; reference lists/bibliographies.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAB</td>
<td>Technical Abstracts Bulletin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TAB INDEXES</td>
<td>Research and Technology Work Unit Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
DoD NUCLEAR INFORMATION AND ANALYSIS CENTER

ADDRESS: General Electric Company (TEMPO)
816 State Street
Santa Barbara, CA
93102

TELEPHONE: (805) 965-0551 x253

DIRECTOR: Chan, W. W.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Defense Atomic Support Agency) and General Electric Company (TEMPO)

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To provide a focal point for the collection, storage, analysis, and dissemination of nuclear weapons effects information.

SUBJECT SCOPE: Nuclear weapons effects.

MAJOR SUBJECT TERMS: Aerospace explosives; Escape; Explosion; Explosive devices; Explosive devices tests; Explosives safety; fire and explosion dynamics; Fire safety; Fission product release; Missiles; Nuclear blast; Nuclear radiation; Nuclear safety; Radiation damage; Radiation detection; Radiation effects; Radiation monitoring; Radiation protection; Radiation shielding; Radioactive decontamination.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chan, W. W.</td>
<td>Nuclear safety</td>
<td>(805) 965-0551</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 18, nonprofessional 8, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; reports and reprints: 16,000; reference lists/bibliographies; films and slides: 5,000. Range of years of total: 1945 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
DIATOMIC MOLECULE SPECTRA AND ENERGY LEVELS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301)921-2021

DIRECTOR: Krupennie, P. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To provide critical reviews on the spectroscopy of diatomic molecules.

SUBJECT SCOPE: Optical spectroscopic data and constants for diatomic molecules; molecular parameters derived from spectroscopic measurements; all aspects of electromagnetic spectrum.

MAJOR SUBJECT TERMS: Molecular structure.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on molecular nitrogen.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krupennie, P. H.</td>
<td>Molecular structure</td>
<td>(301)921-2021</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: General technology community.

May 1973
DIFFUSION IN METALS DATA CENTER

ADDRESS: National Bureau of Standards
          Metallurgy Division
          Washington, DC
          20234

TELEPHONE: (301) 921-3354

DIRECTOR: Manning, J. R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

MISSION: To compile and critically analyze data on diffusion in metals.

SUBJECT SCOPE: Diffusion properties of metals and alloys.

MAJOR SUBJECT TERMS: Metals; Metals and alloys; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No, and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manning, J. R.</td>
<td>Metals</td>
<td>(301) 921-3354</td>
</tr>
<tr>
<td>Butrynowicz, D. B.</td>
<td>Metals</td>
<td>(301) 921-3354</td>
</tr>
<tr>
<td>Read, M. E.</td>
<td>Metals</td>
<td>(301) 921-3354</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers

HOLDINGS: Reports and reprints; periodicals; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

May 1973
DIVER EQUIPMENT INFORMATION CENTER (DEIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x3647; TT (810) 482-1679

DIRECTOR: Glasgow, J. S.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Department of Defense
(Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To aid in the advancement of diving technology and in the design and use of diving and related equipment.

SUBJECT SCOPE: Underwater life support equipment, underwater tools and salvage gear, including SCUBA and HOOKAH equipment, masks, suits, CO2 scrubbers, regulators, tanks, gas supplies, power tools, and instruments; decompression chambers; communications; diver capability information; and physiological data.

MAJOR SUBJECT TERMS: Communications; Human factors design; Life support; Life support design; Life support systems; Personal protective equipment; Physiological stress; Physiology; Pressure; Protective clothing; Psychological stress; Psychology; Respiratory equipment.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glasgow, J. S.</td>
<td>Oceanography</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS-70</td>
<td>Battelle Automated Search Info. System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

USER QUALIFICATIONS: Immediate staff or members; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
ELECTROLYTE DATA CENTER

ADDRESS: National Bureau of Standards
A-164 Chemistry
Washington, DC
20234

TELEPHONE: (301) 921-2776

DIRECTOR: Nuttall, R. L. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To provide on a continuing basis, information services, evaluations, and critical reviews of the thermodynamic data on aqueous electrolytes.

SUBJECT SCOPE: Thermodynamics of aqueous electrolyte solutions, including activity coefficients, osmotic coefficients, enthalpies of solution, dilution, etc.

MAJOR SUBJECT TERMS: Electrolysis; Enthalpy; Thermodynamics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
<th>(X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuttall, R. L.</td>
<td>Electrolysis</td>
<td>(301) 921-2765</td>
<td></td>
</tr>
<tr>
<td>Staples, E. R.</td>
<td>Electrolysis</td>
<td>(301) 921-2776</td>
<td></td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 0, nonprofessional 0, total 0; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; conference papers.

HOLDINGS: Books: 50; abstracts/indexes: 50; reports and reprints: 50; periodicals: 5; reference lists/bibliographies: 5; statistical compilations: 1. Total number of titles: 161; range of years of total: 1971 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; referrals.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
ELECTROMAGNETIC METROLOGY INFORMATION CENTER (EN)

ADDRESS: National Bureau of Standards
Boulder, CO
80302

TELEPHONE: (303) 499-1000 x3951

DIRECTOR: Anson, W. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce
(National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To provide methods and standards of measurement of electromagnetic quantities, properties, and systems in support of the electronics industry and related fields.

SUBJECT SCOPE: Voltage and current, impedance, power, attenuation, noise, pulsed quantities, field strength and antenna gain, frequency and time domain analysis, instrumentation, biomedics, electronics, electromagnetic properties of solids and liquids, electromagnetic fields, and electromagnetic compatibility.

MAJOR SUBJECT TERMS: Aircraft communications; Communications; Communications systems; Electromagnetic disturbances; Electromagnetic interference; Electromagnetic radiation; Instruments; Personal protective equipment; Protective clothing; Radar navigation; Radiation protection; Radio communication systems; Shielding; Solar radiation; Test facilities; Warning systems.

SPECIAL SCOPE FEATURES: Electromagnetic Metrology Information Center (EM) specializes in radio frequency measurement methods and standards in the frequency range of 30 KHz to 100 GHz. Its collection is limited in the frequency ranges of dc to 30 KHz and above 100 GHz.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anson, W. J.</td>
<td>Electromagnetic radiation</td>
<td>(303) 499-1000 x3951</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 4, nonprofessional 3, total 7; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books: 200; abstracts/indexes: 15; reports: 8,000; reprints: 1,000; reference lists/bibliographies: 50; standards and specifications: 100.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
ELECTRONIC INDUSTRIES ASSOCIATION (EIA)

ADDRESS: Engineering Department
2001 Eye Street, NW
Washington, DC
20006

TELEPHONE: (202) 659-2200

DIRECTOR: Bull, W. I.

YEAR INFORMATION SOURCE BEGAN: 1924

MISSION: To support and advance the national defense, economic growth, technological progress, and all other interests of the electronic industries in ways compatible with the public welfare; to serve as the national industrial organization of electronic manufacturers in the United States.

SUBJECT SCOPE: Electronic equipment, including communications, navigation, tracking, and control equipment; data processing systems; instrumentation; recording and test equipment; cathode ray and receiving tubes; power and special purpose electron tubes; solid state products; lasers; electronic parts; audio and video systems; and mass transportation applications.

MAJOR SUBJECT TERMS: Aircraft communications; Communications systems; Controls; Displays; Flight recorders; Flight simulation; Instruments; Lasers; Maintainability; Navigation systems; Quality control; Radar navigation; Radio communication systems; Reliability; Safety engineering; Warning systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bull, W. I.</td>
<td>Electrical/electronics engineering</td>
<td>(202) 659-2200</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
ENGINEERING INDEX, INC. (EI)

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800 x711

DIRECTOR: Creps, J. E.

YEAR INFORMATION SOURCE BEGAN: 1884

MISSION: To disseminate scientific, technical, and engineering information to libraries, educational institutions, professionals, and the general public.

SUBJECT SCOPE: Civil, environmental, geological, biological, mechanical, automotive, nuclear, aerospace, electrical/electronics, control, chemical, agricultural, foods, industrial and physical engineering, including mining, metals, petrochemicals, fuels, management, mathematics, and instruments.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creps, J. E.</td>
<td>Technical information</td>
<td>(212) 752-6800 x711</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional -, nonprofessional -, total 60; part-time - professional -, nonprofessional -, total 10.

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; newsletters/trade literature; conference papers; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 1,850,000; reports and reprints; periodicals: 230,000.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPENDEX</td>
<td>Engineering Index Computer Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHE</td>
<td>Subject Headings for Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PIE</td>
<td>Publications Indexed for Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CITE</td>
<td>Current Information Tapes for Engineers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
ENGINEERING SOCIETIES LIBRARY

ADDRESS: 345 East 47th Street
New York, NY 10017

TELEPHONE: (212) 756-2800

DIRECTOR: Cabeen, S. K.

YEAR INFORMATION SOURCE BEGAN: 1913

SUBJECT SCOPE: Civil engineering, mining, metallurgy, electronics, chemistry, heating, refrigeration, and air-conditioning, illuminating, welding, industrial engineering, and municipal engineering.

MAJOR SUBJECT TERMS: Atmospheric sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabeen, S. K.</td>
<td>Engineering</td>
<td>(212) 756-2800</td>
</tr>
</tbody>
</table>

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

May 1973
ENVIRONMENT INFORMATION CENTER, INC. (EIC)

ADDRESS: 124 East 39th Street
New York, NY
10016

TELEPHONE: (212) 685-0845

DIRECTOR: Kollequer, J. G.

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide an environmental information clearinghouse and library; to facilitate access to environmental information and to increase the speed with which it can be assimilated.

SUBJECT SCOPE: Air pollution, chemical and biological contamination, energy, environmental education, environmental design, food and drugs, land use and misuse, noise pollution, renewable and nonrenewable resources, oceans and estuaries, population planning and control, radiological contamination, recreation, solid wastes, transportation, water pollution, weather modification and geophysical change, and wildlife conservation.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Dangerous industrial radiation; Dangerous materials disposal; Environmental degradation; Noise; Nuclear power plant safety design; Radiation; Radioactive decontamination; Radioactive spills; Radioactive wastes.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kollequer, J. G.</td>
<td>Biological Sciences</td>
<td>(212) 685-0845</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; bibliographic abstracts; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
ENVIROMENTAL INFORMATION ANALYSIS CENTER (EIAC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH 43201

TELEPHONE: (614) 299-3151 x1144; (810) 482-1679

DIRECTOR: Davidson, R. S.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To provide background information in the planning and management of bioenvironmental and radiological safety feasibility field data collection and evaluation.

SUBJECT SCOPE: American temperate and tropic regions, the arctic, subarctic, and similar cold environments in relation to air, water, and solid wastes, systems ecology, radionuclide cycling in the environment, mathematical modeling of ecosystems, population dynamics, bioenergetics, food-chain studies, ethnology, and nuclear technology.

MAJOR SUBJECT TERMS: Air pollution; Air pollution control; Atmospheric monitoring; Biomedical engineering; Environment; Environmental data; Environmental degradation; Environmental factors; Environmental influences; Environmental information; Environmental sciences; Land development; Nuclear power plant operation; Nuclear power plant safety design; Nuclear radiation; Nuclear safety; Radiation tolerance levels; Waste disposal systems; Water pollution.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on air and water quality, ecological systems, health hazards, and resource utilization.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Davidson, R. S.</td>
<td>Environmental sciences</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or ACRONYM</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS-70</td>
<td>Battelle Automated Search Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services.

OTHER SERVICES: Interlibrary loans.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973
ENVIRONMENTAL INFORMATION DIVISION

ADDRESS: Air Training Command - 3636th Combat Crew Training Wing
Building 815
Maxwell Air Force Base, AL
36112

TELEPHONE: (205)293-5373

DIRECTOR: Smith, H. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense
(Department of the Air Force)

YEAR INFORMATION SOURCE BEGAN: 1947

MISSION: To collect and evaluate environmental data and disseminate such data to Air Force schools and commands and other DoD agencies; and to provide guidance and support to the formulation of policies, educational programs, and research in environmental sciences.

SUBJECT SCOPE: Environmental effects on ethnic groups; cross-cultural contacts; emergency survival, evasion, and escape; environmental hazards.

MAJOR SUBJECT TERMS: Air rescue/recovery operations; Emergency equipment; Emergency planning; Environmental influences; Life support design; Life support systems; Nutrition; Personal protective equipment; Personnel training; Physiological effects; Safety procedures; Survival.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith, H. M.</td>
<td>Life sciences</td>
<td>(205)293-5373</td>
</tr>
<tr>
<td>Schwaner, T. D.</td>
<td>Biological sciences</td>
<td>(205)293-6063</td>
</tr>
<tr>
<td>Pepper, S. J.</td>
<td>Biological sciences; Psychology</td>
<td>(205)293-6063</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 2, total 5; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
ENVIRONMENTAL SCIENCE INFORMATION CENTER (ESIC)

ADDRESS: National Oceanic and Atmospheric Administration
Environmental Data Service
Rockville, MD
20852

TELEPHONE: (202)343-7636

DIRECTOR: Caskey, J. E.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Oceanic and Atmospheric Administration)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To provide technical information services by cataloging, abstracting, indexing, announcing, storing, and retrieving of published information in the atmospheric sciences, marine sciences, earth sciences, hydrology, marine fisheries, and geodesy.

SUBJECT SCOPE: Atmospheric sciences, including meteorological observation, analyses, and forecasting; physical and dynamic meteorology; air quality and pollution, and weather modification and monitoring systems; physical oceanography; hydrology; marine biology (fish); and geophysics.

MAJOR SUBJECT TERMS: Climatic ranges; Electromagnetic disturbances; Environmental effects; Environmental influences; Extraterrestrial environmental hazards; Galactic radiation; Gravity; Interplanetary gases; Man-made debris; Meteoroids; Radiation belts; Solar radiation; Upper atmosphere.

SPECIAL SCOPE FEATURES: Physical environment; marine resources.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caskey, J. E.</td>
<td>Environmental sciences</td>
<td>(202)343-6454</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 45, nonprofessional 28, total 73; part-time - professional 0, nonprofessional 8, total 8.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides. Range of years of total: 1873 to date.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDEX</td>
<td>Environmental Data Index</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OASIS</td>
<td>Oceanic and Atmospheric Scientific Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
EXECUTIVE SCIENCES INSTITUTE, INC.

ADDRESS: PO Drawer M
Whippany, NJ
07981

TELEPHONE: (201) 887-1233

DIRECTOR: Rosenthal, A. J.

YEAR INFORMATION SOURCE BEGAN: 1956

MISSION: To provide a digest service of the literature of operations research and managerial methods to respond to the need for wider dissemination and faster retrieval of this information; and to provide an abstract of all current developments in the field of quality control and applied statistics for all branches of industry.

SUBJECT SCOPE: Operations research; management sciences; statistical process control; sampling principles and plans; management of quality control; mathematical statistics and probability theory; experimentation and correlation; and process control instrumentation.

MAJOR SUBJECT TERMS: Flight simulation facilities; Flight simulation operations; Human factors analysis; Industrial safety; Personnel certification; Personnel selection; Personnel training; Quality control; Reliability; Safety engineering; Space simulation facilities; Space simulation operations; Tests.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Sub</th>
<th>Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosenthal, A. J.</td>
<td></td>
<td>Management sciences</td>
<td>(201) 887-1233</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; indexes; periodicals/journals; reference lists/bibliographies; graphics/tabular material.

HOLDINGS: Reports and reprints; periodicals; standards and specifications; graphics/tables.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; referrals; bibliographic abstracts.

OTHER SERVICES: Reproduction/publication services.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
FACTORY MUTUAL RESEARCH CORPORATION (FMRC)

ADDRESS: 1151 Boston-Providence Turnpike
Norwood, MA 02062

TELEPHONE: (617) 762-4300; TLX 92-4415

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To further the refinement of technology that will lead to more effective prediction, prevention, and control of fires.

SUBJECT SCOPE: Fire, explosion, and machine technology; boiler and pressure vessels; electronics; engineering; extinguishing equipment and protection systems; industrial heating; loss analysis; mechanical and nuclear sciences; sprinklers, hose and water spray; standards; welding and metallurgy; hazards analysis; risk analysis; loss prevention; and risk management.

MAJOR SUBJECT TERMS: Airport emergency facilities/equipment; Commercial aviation; Cryogenic safety; Dangerous materials; Explosives safety; Fire; Fire, explosion, and detonations; Lightning; Mechanics of structural failure; Nuclear fuels; Nuclear power plant operation; Nuclear power plant safety design; Radiation detection; Radiation monitoring; Radioactive decontamination; Radioactive spills; Safety analysis; Safety standards; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in areas dealing with fire and other hazards and their interaction with man, the enclosures he uses, and his community.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miller, M. J.</td>
<td>Fire</td>
<td>(617) 762-4300 x567</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 130, nonprofessional 30, total 160; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books: 2,500; abstracts/indexes; reports and reprints; periodicals: 130; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years of total: 1843 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposia.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICE CHARGES: Charge-for-some services to qualified users.

May 1973
FEDERAL AVIATION ADMINISTRATION (FAA)

ADDRESS: US Department of Transportation
800 Independence Avenue, SW
Washington, DC
20591

TELEPHONE: (202) 426-3611

DIRECTOR: Butterfield, A. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1958

MISSION: To promote aviation safety and encourage the most efficient use of the airway system consistent with the public interest.

SUBJECT SCOPE: Airports; aerodynamics and conditions of flight; aircraft; air traffic control; aviation medicine; electronics; crash fire rescue; inspection and maintenance; international aviation; navigation weather; engineering; radar; aircraft safety; aviation statistics; runways/taxiways; air pollution; aviation economics; noise; air traffic congestion; meteorology; aeronautical standards and specifications; communications.

MAJOR SUBJECT TERMS: Accident data; Accident/incident investigation; Air navigation aids; Air traffic control facilities; Air traffic control operations; Aircraft problems; Fire fighting clothing; Fire fighting equipment; Flight simulation facilities; Flight simulation operations; Fuel farms facilities/operations; Human factors analysis; Human factors design; Human functions; Personnel selection; Personnel training; Search and rescue operations; Safety engineering; Vehicle fires; Vehicle fire prevention design.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research and development in two broad areas: the aerospace system, and the aircraft and airmen operating within the airspace.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butterfield, A. P.</td>
<td>Aviation safety</td>
<td>(202) 426-3611</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
FEDERAL FIRE COUNCIL

ADDRESS: National Bureau of Standards
Room A-07, Building 225
Washington, DC
20234

TELEPHONE: (301) 921-3255

DIRECTOR: Hicks, L. B.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1936

MISSION: To reduce fire losses, promote fire safety, encourage research, and develop better techniques for control and prevention of fires through coordination of efforts, a standard approach to problems, and the avoidance of duplication of efforts.

SUBJECT SCOPE: Fire prevention, fire protection, and fire fighting in aerospace vehicles; buildings and contents; forest, grass, and tundra; shipboard; automobiles, open storage, etc.

MAJOR SUBJECT TERMS: Detonations; Explosions; Explosives safety; Extinguishing agents; Extinguishment and control; Fire accident training; Fire detection; Fire fighting; Fire hazard evaluation; Fire prevention; Fire safety evaluation; Fire warning.

RESEARCH AND DEVELOPMENT ACTIVITIES: Encourages research to develop better techniques for fire control and prevention; has committee on Research and Technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hicks, L. B.</td>
<td>Fire safety</td>
<td>(301) 921-3255</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Ad hoc permission; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
FLIGHT SAFETY FOUNDATION (FSP)

ADDRESS: 1800 N. Kent Street
Arlington, VA
22209

TELEPHONE: (703) 528-4100

DIRECTOR: Lederer, J.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To improve the safety of flight.

SUBJECT SCOPE: Flight safety.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Air traffic control facilities; Air traffic control operations; Aircraft subsystems; Codes; Environmental influences; Human factors; Man-machine hazards; Operational mode; Propulsion systems; Regulations; Standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and accident/incident data analysis.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lederer, J.</td>
<td>Aerospace safety engineering</td>
<td>(703) 528-4100</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; technical reports; statistical compilations; newsletters/trade literature; conference papers; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

HOlDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; statistical compilations; films and slides.

USER QUALIFICATIONS: General technology community; immediate staff or members.

May 1973
GENERAL ELECTRIC SPACE DIVISION

ADDRESS: Valley Forge Space Center
PO Box 8555
Philadelphia, PA
19101

TELEPHONE: (215) 962-3480

DIRECTOR: Dick, P.

PARENT-SPONSOR-HOST AFFILIATION: General Electric Company

MISSION: To design, develop, and produce spacecraft, spacecraft subsystems and components and ground systems for use in military, civilian, and commercial space programs and projects; and to apply the technological, management, systems, and component capability developed in the space effort to other areas such as communications, training, data management, environment and ecology, in order to improve the security and quality of life.

SUBJECT SCOPE: Satellites, metallography, nuclear system safety, spacecraft, environmental protection, arctic technology, radiation, materials, aerospace safety, space systems hardware, isotopes, electronics.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Chemical properties; Communications systems; Cryogenic facility safety design; Cryogenic safety; Cryogenic systems hazards; Cryogenic systems materials selection; Electrical/electronics engineering; Electromagnetic disturbances; Electronic networks/circuits; Environmental influences; Instrumentation; Metallurgy; Nuclear safety; Radiation shielding; Space sciences; Systems safety.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dick, P.</td>
<td>Space sciences</td>
<td>(215) 962-3480</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER RESTRICTIONS: Industrial/corporate security clearance.

May 1973
GEORGIA INFORMATION DISSEMINATION CENTER (GIDC)

ADDRESS: University of Georgia Computer Center
Boyd Graduate Studies Building
Athens, GA 30602

TELEPHONE: (404) 542-3741

DIRECTOR: Edwards, J. S.

PARENT-SPONSOR-HOST AFFILIATION: University of Georgia

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To provide computer-based searches of published literature.

SUBJECT SCOPE: Agriculture, biology, chemistry, biochemistry, education, nuclear science, geology, physics, engineering, sociology, and psychology.

MAJOR SUBJECT TERMS: Applied forces (stresses); Chemical properties; Corrosion properties; Environmental influences; Fabrication processes; Failure mechanisms; Fastening methods; Human factors analysis; Joining methods; Life support design; Man-machine hazards; Mechanical properties; Personnel selection; Personnel training; Physical properties; Production limitations; Stress/strain analysis; Structural failure; Structural materials limitations; Thermodynamic properties.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edwards, J. S.</td>
<td>Computer sciences</td>
<td>(404) 542-3741</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 6, nonprofessional 3, total 9; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxitape</td>
<td>Toxicology, pollution</td>
<td>1968 - present</td>
<td></td>
</tr>
<tr>
<td>CA-Condensates</td>
<td>Formula and subject indexes; structure titles</td>
<td>1967 - present</td>
<td></td>
</tr>
<tr>
<td>GEO-REF</td>
<td>Geological reference file</td>
<td>1965-1971</td>
<td></td>
</tr>
<tr>
<td>CBAC</td>
<td>Chemical-Biological Activities</td>
<td>1965-1971</td>
<td></td>
</tr>
<tr>
<td>CAIN</td>
<td>Cataloging and indexing (agriculture)</td>
<td>1970 - present</td>
<td></td>
</tr>
<tr>
<td>E-A-Previews</td>
<td>Biological Abstracts and Bio research Index</td>
<td>1969 - present</td>
<td></td>
</tr>
<tr>
<td>CITE</td>
<td>Current Information Tapes for Engineers</td>
<td>1968-1969</td>
<td></td>
</tr>
<tr>
<td>ERIC</td>
<td>Research in Education</td>
<td>1968 - present</td>
<td></td>
</tr>
<tr>
<td>PA</td>
<td>Psychological Abstracts</td>
<td>1967 - present</td>
<td></td>
</tr>
<tr>
<td>GA</td>
<td>Geophysical Abstracts</td>
<td>1966-1970</td>
<td></td>
</tr>
<tr>
<td>SA</td>
<td>Sociological Abstracts</td>
<td>1965 - present</td>
<td></td>
</tr>
<tr>
<td>NSA</td>
<td>Nuclear Science Abstracts</td>
<td>1966 - present</td>
<td></td>
</tr>
<tr>
<td>SPIN</td>
<td>Searchable Physics Information Notices</td>
<td>1970 - present</td>
<td></td>
</tr>
<tr>
<td>GRA</td>
<td>US Government R and D Reports</td>
<td>1970 - present</td>
<td></td>
</tr>
<tr>
<td>COMPENDEX</td>
<td>Computerized Engineering Index</td>
<td>1969 - present</td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.
USER QUALIFICATIONS: General technology community.
USER RESTRICTIONS: None (unclassified material).
PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
GLOBAL ENGINEERING DOCUMENTATION SERVICE, INC.

ADDRESS: 3950 Campus Drive
PO Box 2060
Newport Beach, CA
92663

TELEPHONE: (714) 540-9870; WATS (800) 854-3296

DIRECTOR: Miller, B. H.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To maintain a library of government and industry specifications and standards, and to provide these documents to customers within 24 hours after request.

SUBJECT SCOPE: Research and abstract specifications and standards, physical and life sciences, industrial health and safety, and engineering.

MAJOR SUBJECT TERMS: Personal protective equipment; Quality control; Safety analysis of equipment; Safety standards; Tests.

STAFF SUBJECT SPECIALISTS:

Name       Subject Specialty     Tel. No. and Ext.(s)
Miller, B. H.  Documentation     (714) 540-9870
Lieblich, J. H.  Fasteners      (714) 540-9870
Simonton, D.  Industrial safety (714) 540-9870

STAFF: Full-time - professional 3, nonprofessional 7, total 10; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Books; indexes; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 100; abstracts/indexes: 200; reports and reprints: 500; reference lists/bibliographies: 100; standards and specifications: 500,000. Total number of titles: 501,000; range of years of total: 1946 to present.

REFERENCE AND QUERY SERVICES: Selective dissemination of information; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
GOODYEAR TECHNICAL INFORMATION CENTER

ADDRESS: Goodyear Tire and Rubber Company Research Laboratory
Akron, OH
44316

TELEPHONE: (216) 794-4980

DIRECTOR: Straka, L. E. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Goodyear Tire and Rubber Company

MISSION: To provide information in the field of polymer science and technology to Goodyear employees.

SUBJECT SCOPE: Polymer science and technology, rubber, plastics, organic and inorganic chemistry, physics, radiation, and computer technology.

MAJOR SUBJECT TERMS: Adhesives; Chemical engineering; Elastomers; Hazardous materials; Material processes engineering; Materials research; Plastics; Polymers; Radiation; Rubber.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in polymer science.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straka, L. E.</td>
<td>Chemistry</td>
<td>(216) 794-4980</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 7, nonprofessional 3, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books: 5,900; abstracts/indexes; reports and reprints; periodicals: 9,168; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; conferences/symposiums.

HOLDINGS: Books: 5,900; abstracts/indexes; reports and reprints; periodicals: 9,168; reference lists/bibliographies; films and slides.

USER QUALIFICATIONS: Immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)

ADDRESS: US Naval Fleet Missile Systems Analysis and Evaluation Group  
Corona, CA  
91720

TELEPHONE: (714)736-4677; AV 933-4677

DIRECTOR: Richards, E. T.

PARENT-SPONSOR-HOST AFFILIATION: Joint Commanders: AMC, NMC, AFLC, AFSC, NASA, CAMESA

YEAR INFORMATION SOURCE BEGAN: 1959

MISSION: To provide for the consolidated exchange of reliability data among Government and industry.

SUBJECT SCOPE: Acquisition, storage, retrieval, and dissemination of reliability test and usage information on parts, components materials, and test equipment calibration procedures for military and space hardware.

MAJOR SUBJECT TERMS: Certification; Clearinghouse; Compatibility; Components; Electronic networks/circuits; Failure mechanisms; Maintainability; Maintainability assurance; Performance data; Property data; Quality assurance; Quality certification; Quality control; Reliability; Reliability analysis; Reliability assurance; Safety analysis; Safety analysis of equipment; Test data; Test techniques.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richards, E. T.</td>
<td>Reliability analysis</td>
<td>(714) 736-4677</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; conference papers; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 35,000; range of years of total: 1959 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical reports. Technical Data Interchange Procedures.</td>
<td>35,000</td>
<td></td>
</tr>
<tr>
<td>Calibration Procedures</td>
<td>15,000</td>
<td></td>
</tr>
</tbody>
</table>

ALERT  
Alerting user and producer of problems with parts, materials, or test equipment; process or safety problem of general concern (*350-400 reports and procedures entering system each month).  
UDR  
Urgent Data Request; nationwide network of engineering data specialists

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: None (Unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
GUGGENHEIM CENTER FOR AEROSPACE HEALTH AND SAFETY

ADDRESS: 665 Huntington Avenue
Boston, MA
02115

TELEPHONE: (617) 734-3300 x550

DIRECTOR: McFarland, R. A. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Harvard School of Public Health

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To study responses of the human body to environmental extremes and to carry on basic research in the prevention and control of the increasing dangers of the air age.

SUBJECT SCOPE: Air, highway, and industrial health and safety, including the effects of environmental stresses on man and his performance; human engineering evaluation of all types of equipment, considering factors such as variable body size, problems of operational fatigue, circadian rhythms, and ageing; transportation of patients by air; medical problems of aircrews; and air pollution, such as the effects of the presence of carbon monoxide in the air.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aerospace medicine; Air pollution control; Environmental effects; Man-machine hazards; Physiological stress; Psychological stress; Toxicology; Waste disposal.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research in all subject areas, currently including the toxic properties of fuels, contamination by radio power sources or fallout, the toxicity of trace contaminants found in space cabins, and problems of respiratory physiology in cloud ecological systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McFarland, R. A.</td>
<td>Biological sciences</td>
<td>(617) 734-3300 x550</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 6, nonprofessional 0, total 6; part-time - professional 6, nonprofessional 0, total 6.

INTERNAL PUBLICATIONS: Books; technical reports; periodicals/journals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
HARRY DIAMOND LABORATORIES (HDL)

ADDRESS: US Army Materiel Command
Washington, DC
20438

TELEPHONE: (202)282-2011

DIRECTOR: Einsel, D. W. (Col)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To provide solutions to the scientific and technical tasks assigned to the Laboratories by the Army and other agencies of the Government.

SUBJECT SCOPE: Fluorics/fluidics; fuzes; medical engineering; power supplies; materials research; solid state physics and lasers; short pulse radar; physical electronics; microwave components; microelectronics; industrial engineering; instrumentation and simulation; counter-countermeasures; nuclear weapons effects, and other severe environments; and target intercept phase of terminal guidance.

MAJOR SUBJECT TERMS: Explosive devices tests; Hazardous materials; Industrial safety; Ionizing radiation; Nuclear power plant operation; Nuclear power plant safety design; Pyrotechnic materials; Quality control; Test facilities; Tests.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts basic research in the physical sciences, and development of engineering and testing.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Einsel, D. W.</td>
<td>Physical sciences</td>
<td>(202)282-2011</td>
</tr>
<tr>
<td>Spates, J. E.</td>
<td>Physics</td>
<td>(202)282-2028</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 543, nonprofessional 910, total 1453; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
HIGHWAY RESEARCH INFORMATION SERVICE (HRIS)

ADDRESS: Highway Research Board
2101 Constitution Avenue, SW
Washington, DC 20418

TELEPHONE: (202) 961-1782

DIRECTOR: Mobley, A. B.

PARENT-SPONSOR-HOST AFFILIATION: Highway Research Board

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To provide reference information with abstracts to researchers, engineers, and administrators in the transportation field, particularly in the highway and urban transit research fields.

SUBJECT SCOPE: Transportation research and applications that are related to highways, public transit, and other modes of transportation; economics, finance and administration; design; materials and construction; traffic and operations; maintenance; soils; geology and foundations; legal studies; urban transportation planning.

MAJOR SUBJECT TERMS: Construction materials; Construction practices; Earth sciences; Engineering sciences; Failure mechanisms; Highway safety; Human factors analysis; Materials evaluation; Materials research; Mechanics of structural failure; Restraint systems; Safety analysis; Safety laws; Soil mechanics; Structural failure; Structural materials limitations; Transportation; Transportation engineering; Transportation procedures; Transportation regulations.

SPECIAL SCOPE FEATURES: Highway safety physical plant, traffic operations, and operator characteristics and training.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobley, A. B.</td>
<td>Transportation; Highway Safety</td>
<td>(202) 961-1782</td>
</tr>
<tr>
<td>Jordan, J. S.</td>
<td>Technical information</td>
<td>(202) 961-1358</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 16, total 18; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts and indexes; reports and reprints; periodicals; reference lists/bibliographies. Total number of titles: 40,000.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; bibliographic abstracts; scientific or statistical data retrieval/comilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER-RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
HIGHWAY SAFETY RESEARCH INSTITUTE (HSRI)

ADDRESS: University of Michigan
Huron Parkway and Baxter Road
Ann Arbor, MI 48105

TELEPHONE: (313) 764-2171

DIRECTOR: Hess, R. L.

PARENT-SPONSOR-HOST AFFILIATION: University of Michigan

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To analyze the elements of the complex and dynamic system of people, automotive vehicles, and the environments in which they operate, and to develop practical and effective solutions to the urgent problems of highway safety within that system.

SUBJECT SCOPE: Automobile and highway safety, including impacts in engineering, medicine, law, computer science, psychology, and sociology.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Highway safety; Human characteristics; Human factors analysis; Restraints; Safety engineering; Survival.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research in the biosciences; human, physical, and public factors; and systems analysis.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hess, R. L.</td>
<td>Transportation engineering; Highway safety</td>
<td>(313) 764-2171</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 26,000; range of years of total: 1933 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
ILLUMINATING ENGINEERING SOCIETY (IES)

ADDRESS: 345 East 47th Street
New York, NY
10017

TELEPHONE: (212) 752-6800

DIRECTOR: Coda, F.

MISSION: To communicate information on good lighting practices; to provide an on-going professional staff function, assist with technical problems, reference help, and liaison with other professional groups.

SUBJECT SCOPE: Lighting and all related areas.

MAJOR SUBJECT TERMS: Air navigation; Basic research; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research programs in the area of visual performance and illumination, roadway visual tasks, color preference studies, glare from large sources, and transitional adaptation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coda, F.</td>
<td>Illumination</td>
<td>(212) 752-6800</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional -, nonprofessional -, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
INDUSTRIAL FASTENERS INSTITUTE

ADDRESS: 1505 East Ohio Building
1717 East 9th Street
Cleveland, OH
44114

TELEPHONE: (216) 241-1482

DIRECTOR: Akstens, F. W.

YEAR INFORMATION SOURCE BEGAN: 1931

MISSION: To provide a continuing flow of information and technology of value to user companies, the Government, the press, and other trade associations; and to develop standards to increase the productivity and safety and reliability of the end products of the member companies.

SUBJECT SCOPE: Technology of mechanical fasteners, including bolts, screws, rivets, and specially engineered parts (over 500,000 standard types) designed to hold, join, couple, assemble, or maintain the equilibrium of single or multiple components.

MAJOR SUBJECT TERMS: Corrosion; Corrosion properties; Failure mechanisms; Fasteners; Fastening methods; Fatigue (materials); Galvanic corrosion; Incompatibilities; Industrial safety; Industrial safety and health; Joining methods; Mechanical properties; Production limitations; Shock; Stress; Stress/strain analysis; Structural failure; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akstens, F. W.</td>
<td>Mechanical engineering</td>
<td>(216) 241-1482</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposia.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
INFORMATION SERVICES DEPARTMENT

ADDRESS: University of Tulsa
1133 North Lewis Avenue
Tulsa, OK
74110

TELEPHONE: (918) 939-6351

DIRECTOR: McLeod, H. O. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: University of Tulsa

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To serve as the information retrieval service for the petroleum industry; to provide engineers and scientists with up-to-date information on new techniques and discoveries in the field of petroleum technology.

SUBJECT SCOPE: Exploration, production and transportation of crude oil and natural gas; geology; geophysics; geochemistry; drilling, well logging, well completion and servicing, oil and gas production, reservoir studies, transportation and storage.

MAJOR SUBJECT TERMS: Fuels; Geology; Geophysics; Petroleum; Oil.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McLeod, H. O.</td>
<td>Petroleum</td>
<td>(918) 939-6351</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 8, nonprofessional 9, total 17; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>PASS</td>
<td>Petroleum</td>
<td>1965 - present</td>
<td>110,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
INSTITUTE OF ENVIRONMENTAL SCIENCES (IES)

ADDRESS: 940 East Northwest Highway
Mt. Prospect, IL 60056

TELEPHONE: (312) 255-1561

DIRECTOR: Peterson, B. L.

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To promote and encourage the acquisition and dissemination of knowledge of environmental sciences in industry, science, and government; to develop and promote standards, research, simulation, testing, and design criteria in the environmental field; to perform administrative functions for the professional engineering society.

SUBJECT SCOPE: Aerospace engineering, earth environmental sciences, and environmental/ecological education.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution control; Corrosives; Crew considerations; Earth sciences; Environmental effects; Environmental influences; Extraterrestrial environmental hazards; Flight simulation facilities; Flight simulation operations; Noise; Pressure waves; Radioactive wastes; Shielding.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peterson, B. L.</td>
<td>Environmental Sciences</td>
<td>(312) 255-1561</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973
INSTITUTE OF GAS TECHNOLOGY (IGT)

ADDRESS: Illinois Institute of Technology
3424 South State Street
Chicago, IL
60616

TELEPHONE: (312) 255-9600

DIRECTOR: Linden, H. R.

PARENT-SPONSOR-HOST AFFILIATION: Illinois Institute of Technology

YEAR INFORMATION SOURCE BEGAN: 1941

MISSION: To serve the utility gas industry and others through education, research, and the dissemination of pertinent technical information.

SUBJECT SCOPE: Natural gas; liquefied petroleum; the production, transmission, storage, distribution, and utilization of gas; environmental research; gas storage and distribution; appliance development; combustion and industrial utilization; electrochemistry; low-temperature fuel cells; high-temperature fuel cells; fuel cell system design; gasification research; metallurgical processes; petrochemical processes; and pilot plants.

MAJOR SUBJECT TERMS: Carbon monoxide; Combustion; Combustion products; Compressed gases; Cryogenic safety; Explosives; Fire; Flammables; Fuel farm facilities/operations; Handling procedures; Hazardous materials; Hydrogen; Methane; Nitrogen; Shipping regulations; Storage procedures; System contamination; Transportation procedures; Transportation regulations; Turbine engines.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports environmental research, pollution reduction, noise reduction, faster food preparation, improved efficiency of gas street lamps, and requirements for gas utilization in modular-constructed housing.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel, No. and Ext. [x]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linden, H. R.</td>
<td>Chemical engineering</td>
<td>(312) 225-9600</td>
</tr>
<tr>
<td>Bodle, W. W.</td>
<td>Management sciences</td>
<td>(312) 225-9600 x625</td>
</tr>
<tr>
<td>Rosenberg, R. B.</td>
<td>Engineering</td>
<td>(312) 225-9600 x680</td>
</tr>
<tr>
<td>Schora, F. C.</td>
<td>Material processes engineering</td>
<td>(312) 225-9600 x664</td>
</tr>
<tr>
<td>Bukacek, R. F.</td>
<td>Education and training</td>
<td>(312) 225-9600 x604</td>
</tr>
<tr>
<td>Kniebes, D. V.</td>
<td>Technical information</td>
<td>(312) 225-9600 x613</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 156, nonprofessional 34, total 290; part-time - professional 24, nonprofessional 0, total 24.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 10,000; abstracts/indexes: 95,000; reports and reprints: 3,500; periodicals: 8,000; reference lists/bibliographies: 25; films and slides: 1,500. Total number of titles: 110,000; range of years of total: 1941 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTIN</td>
<td>Abstracts, papers</td>
<td>1964-present</td>
<td>25,000</td>
</tr>
<tr>
<td>IGT Library</td>
<td>Books, reports, periodicals</td>
<td>1941-present</td>
<td>100,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.
INSTITUTE OF GAS TECHNOLOGY (IGT)

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
INSTITUTE OF TEXTILE TECHNOLOGY (ITT)

ADDRESS: Route 250 West
Charlottesville, VA
22902

TELEPHONE: (703) 296-5511 x54

DIRECTOR: Hallstrom, S. G.

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To conduct research on textile raw materials, products, and processes; to maintain a library and information service to keep mills abreast of the developments in the textile industry throughout the world; and to train men at the graduate level in the fundamental sciences and in textile technology.

SUBJECT SCOPE: Fibers; yarn production; fabric production; finishing; apparel production; testing and measurement; mill management; chemical, physical, and biological sciences interfaces; instrumentation; and materials.

MAJOR SUBJECT TERMS: Clothing; Head gear; Industrial processes; Industrial safety; Materials; Personal protective equipment; Protective clothing; Radiation protection; Textiles; Vehicle fires.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research involving raw materials, yarn manufacturing, preparation and weaving, dyeing and finishing, woolens and worsteds, knitting, operations research, and mill management.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel, No., and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallstrom, S. G.</td>
<td>Chemistry; Materials</td>
<td>(703) 296-5511 x54</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books: 8,000; abstracts/indexes: 20; reports and reprints: 8,500; periodicals: 18,000; reference lists/bibliographies: 600; standards and specifications: 850; graphics/tables; statistical compilations: 25; films and slides: 24.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWIC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KWOC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
INSTRUMENT SOCIETY OF AMERICA (ISA)

ADDRESS: 400 Stanwick Street
Pittsburgh, PA
15222

TELEPHONE: (412) 281-3171

DIRECTOR: Yaqer, E.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To advance the knowledge and practice related to the theory, design, manufacture, and use of instrumentation for industrial, laboratory, biophysical, marine, and space environment.

SUBJECT SCOPE: Measurement, precision standards, analysis, automatic control, data handling and computation, maintenance management, telemetry, metrology, and information display.

MAJOR SUBJECT TERMS: Detection and warning systems; Instrumentation; Instruments; Maintainability; Monitoring; Warning systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yaqer, E.</td>
<td>Instrumentation</td>
<td>(412) 281-3171</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; standards and specifications; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or ACRONYM</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>KWIC</td>
<td>Keyword in Context</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; translations.

OTHER SERVICES: Courses/workshops; conferences/symposia.

HOLDINGS: Abstracts/indexes; standards and specifications; films and slides.

May 1973
LEAD INDUSTRIES ASSOCIATION, INC. (LIA)

ADDRESS: 292 Madison Avenue
New York, NY
10017

TELEPHONE: (212) 679-6020

DIRECTOR: Smith, J. F.

YEAR INFORMATION SOURCE BEGAN: 1928

MISSION: To collect, publish, and disseminate statistical information relating to the production, distribution, marketing, consumption, and use of lead and lead products; to develop methods for the improvement of the welfare of those engaged in the production of lead, its products, or in their use; and to promote the serviceability of lead industries to the community.

SUBJECT SCOPE: All aspects of lead technology, including proper handling; toxicity and treatment; design engineering; architectural, construction, chemical, ceramic, and paint industries interfaces; applications of lead involving solders, coated metals, castings, etc.

MAJOR SUBJECT TERMS: Air pollutants; Coatings; Glass; Industrial hygiene; Joining methods; Lead; Metal powders; Metallurgy; Potash; Sanitation; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Until 1958, the Association conducted modest research programs; thereafter research was performed by the International Lead Zinc Research Organization, Inc., the research arm of the lead and zinc industries.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith, J. F.</td>
<td>Metallurgy; Lead</td>
<td>(212) 679-6020</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 11, nonprofessional 6, total 17; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
LOCKHEED TECHNICAL INFORMATION CENTER

ADDRESS: 3251 Hanover Street
Palo Alto, CA
94304

TELEPHONE: (415) 493-4411

DIRECTOR: Evans, G. R.

PARENT-SPONSOR-HOST AFFILIATION: Lockheed Missiles and Space Company

MISSION: To provide support for research, engineering, and staff management efforts.

SUBJECT SCOPE: Aerospace, astronautics, bioastronautics, chemistry, electronics, materials and structures, mathematics, missiles, oceanography, physics, propulsion, and system management.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evans, G. R.</td>
<td>Technical information</td>
<td>(415) 493-4411</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOOLDINGS: Books: 27,615; abstracts/indexes; reports and reprints: 170,380; periodicals: 950; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans; conferences/symposiums.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
LOW-TEMPERATURE SPECIFIC HEATS DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (301) 921-2742

DIRECTOR: Furukawa, G. T.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To analyze literature data on specific heats in the range of 0° to 300° K.

SUBJECT SCOPE: Cryogenic physics, statistical physics, temperature, radiation thermometry, pressure measurements.

MAJOR SUBJECT TERMS: Physics; Specific heat.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furukawa, G. T.</td>
<td>Specific heat</td>
<td>(301) 921-2742</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 0, total 1; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually, advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

May 1973
MANAGEMENT INFORMATION SYSTEMS DIRECTORATE, STINFO BRANCH

ADDRESS: US Army Electronics Command Hq.
Fort Monmouth, NJ
07703

TELEPHONE: (201) 535-2184

DIRECTOR: Bergman, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To provide across the board information service to US Army Electronics Command, scientists, and engineers fueling the entire research, development, testing, and evaluation cycle, including state-of-the-art searches, work in progress searches, and current awareness service through automated selective dissemination of information. To develop information flow procedures for improved, augmented, and integrated information services throughout the command. To devise and implement effective utilization of computer facilities for automating the acquisition, cataloging, retrieval, and dissemination of scientific and technical information for in-house use. To coordinate and effect US Army ECON participation in and implementation of Department of the Army STINFO programs.

SUBJECT SCOPE: Electronic engineering, communications, automatic data processing systems, combat surveillance, target acquisition, night vision, avionics, navigation, atmospheric sciences, electronic warfare, electric components, power sources, materials, and related fields of physics and mathematics.

MAJOR SUBJECT TERMS: Acoustic radiation; Aircraft communications; Communications; Dangerous industrial radiation; Electromagnetic interference; Electromagnetic radiation; Flight computer; Flight controls; Ionizing radiation; Navigation; Navigation equipment; Nuclear blast; Radiation detection; Radiation physiological effects; Radiation protection.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
<th>(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bergman, J.</td>
<td>Technical information</td>
<td>(201) 535-2184</td>
<td></td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Analytical studies; referrals.

May 1973
MANUFACTURING CHEMISTS ASSOCIATION, INC. (MCA)

ADDRESS: 1852 Connecticut Avenue, NW
Washington, DC 20009

TELEPHONE: (202) 483-6126

DIRECTOR: Driver, W. J.

YEAR INFORMATION SOURCE BEGAN: 1872

MISSION: To provide leadership to its members; to aid in developing and maintaining a clear understanding by the public of the chemical industry; to undertake programs for developing and promoting safe and clean practices in the manufacture, transportation, handling, and use of chemicals and chemical products.

SUBJECT SCOPE: Chemicals; combustion; environmental pollution; economics and statistics; water resources; environmental health; safety; transportation, packaging, handling, and labeling; and food additives.

MAJOR SUBJECT TERMS: Chemical properties; Corrosion properties; Cryogenic safety; Dangerous materials; Explosives disposal; Explosives safety; Flammables disposal; Hazardous characteristics; Physical properties.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver, W. J.</td>
<td>Chemistry</td>
<td>(202) 483-6126</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
MATERIALS RESEARCH CENTER (MRC)

ADDRESS: Northwestern University
Evanston, IL
60201

TELEPHONE: (312) 492-3607

DIRECTOR: Wagner, J. B. (Dr.)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Advanced Research Projects Agency) and the National Science Foundation

MISSION: To conduct basic and applied research in the field of materials.

SUBJECT SCOPE: Materials science, electrical engineering, chemistry, physics, civil engineering.

MAJOR SUBJECT TERMS: Civil engineering; Electrical/electronics engineering; Hazardous materials; Hazardous materials classification; Hazardous materials disposal; Hazardous materials identification; Mechanical properties; Physical properties; Physics; Production limitations; Structural engineering; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wagner, J. B.</td>
<td>Materials research</td>
<td>(312) 492-3607</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports.

HOLDINGS: Reports and reprints.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

May 1973
MECHANICAL PROPERTIES DATA CENTER (MPDC)

ADDRESS: Belfour Stulen, Inc.
13919 West Bay Shore Drive
Traverse City, MI
49684

TELEPHONE: (616) 947-4500

DIRECTOR: Belfour, A. J.


YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To provide answers to specific questions regarding the mechanical properties of structural metals and alloys that are important to the Government and industry.

SUBJECT SCOPE: Mechanical properties, structural metals and alloys.

MAJOR SUBJECT TERMS: Aluminum; Applied forces (stresses); Beryllium; Corrosion properties; Cryogenic safety; Cryogenic systems materials selection; Fabrication processes; Failure mechanisms; Ferrous metals; Joining methods; Magnesium; Material processes engineering; Material properties; Mechanical properties; Mechanics of structural failure; Nickel; Novel materials; Production limitations; Structural materials limitations; Titanium.

RESEARCH AND DEVELOPMENT ACTIVITIES: Receives reports from DoD research and development efforts.

SPECIAL SCOPE FEATURES: The Mechanical Properties Data Center collects, stores, and on request, retrieves test results from tests conducted on metal and metal alloy products to determine their engineering mechanical properties. All test data stored in the MPDC file have been extracted from published and unpublished test reports generated by private industry, universities, and Government-sponsored research laboratories. Design values and specification minimum values are not stored. The MPDC data file contains only actual test results. Test results are stored for the standardized test types, along with various descriptors necessary to define the product tested, such as the alloy designation and product form and the fabrication processes used in manufacturing the products. Additional descriptors are included to define the metallurgical condition of the product tested. Chemical composition and the time-temperature details of the heat-treatment are also stored.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belfour, A. J.</td>
<td>Metallurgy</td>
<td>(616) 947-4500</td>
</tr>
<tr>
<td>Attwood, V.</td>
<td>Materials</td>
<td>(616) 947-4500 x61</td>
</tr>
<tr>
<td>Moore, T. D.</td>
<td>Metallurgical processes</td>
<td>(616) 947-4500 x60</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 4, total 7; part-time - professional 2, nonprofessional 4, total 6.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOOLDINGS: Books: 400; reports and reprints: 40,000; periodicals: 1,200; standards and specifications: 2,500; graphics/tables. Range of years of total: 1940 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
METAL POWDER INDUSTRIES FEDERATION (MIPF)

ADDRESS: 201 East 42nd Street
New York, NY
10017

TELEPHONE: (212) 682-0115

DIRECTOR: Roll, K. H.

YEAR INFORMATION SOURCE BEGAN: 1948

MISSION: To provide its members with a "total outlook" on the metal powder producing and consuming industries.

SUBJECT SCOPE: Metal powders processes and applications.

MAJOR SUBJECT TERMS: Aluminum; Aluminum alloys; Chemical properties; Copper; Corrosion properties; Ferrous metals; Industrial safety; Magnesium; Mechanical properties; Metal powders; Metallurgical processes; Physical properties; Primary fabrication; Production limitations; Secondary fabrication.

RESEARCH AND DEVELOPMENT ACTIVITIES: Promotes advancement of powder metallurgy through research.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll, K. H.</td>
<td>Powder metallurgy</td>
<td>(212) 682-0115</td>
</tr>
<tr>
<td>Johnson, P. K.</td>
<td>Metal powders</td>
<td>(212) 682-0115</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 4, total 6; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Range of years of total: 1948 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; bibliographic abstracts.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposiaus.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; ad hoc permission; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
METALS AND CERAMICS INFORMATION CENTER (MCIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x2156; FTS 295-8045

DIRECTOR: Moran, H. D.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute and US Department of Defense

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To collect, evaluate, and disseminate timely information on the characteristics and utilization of advanced metals, ceramics, and selected composites.

SUBJECT SCOPE: Metals, including titanium, aluminum, magnesium, and beryllium, refractory metals, high strength steels, superalloys, rhenium and vanadium; ceramics, including borides, carbides, carbon/graphite, nitrides, oxides, sulfides and silicides, intermetallics, selected glasses and glass-ceramics; composites, including fiber-reinforced plastics, metals, and ceramics; coatings; environmental effects; mechanical and physical properties; materials applications; test methods; sources, suppliers, and specifications; and industrial processes.

MAJOR SUBJECT TERMS: Aluminum; Aluminum alloys; Beryllium; Ceramics; Composites; Cupro-beryllium alloys; Experimental alloys; Glass; High strength steels; Magnesium; Metal powders; Novel materials; Refractory metals; Steel alloys; Titanium; Titanium alloys; Wrought aluminum.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on the applications, properties, performance, processing, fabricating and testing of metallic and ceramic materials and composites.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moran, H. D.</td>
<td>Metallurgy</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 100,000; range of years of total: 1955 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Access</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS-70</td>
<td>Battelle Automated Search Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
METALS INFORMATION SERVICE

ADDRESS: Metals Park, OH 44073

TELEPHONE: (216) 338-5151

DIRECTOR: Chafe, H. D.

PARENT-SPONSOR-HOST AFFILIATION: American Society for Metals

MISSION: To provide efficient, economical coverage and retrieval of the world's technical literature in metallurgy and associated technologies.

SUBJECT SCOPE: Constitution of metals, crystal properties, lattice defects, structural hardening, physics of metals, irradiation effects; metallography, testing, analysis; mechanical and physical properties, electrical and magnetic phenomena, chemical and electrochemical properties, corrosion; ores, and raw materials, extraction and smelting, refining and purification, ferrous and nonferrous alloy production; foundry processes, working, machining, powder technology, joining, thermal treatment, finishing, metallic coating; engineering components and structures, composites, electronic devices.

MAJOR SUBJECT TERMS: Chemical properties; Composites; Crystal properties; Electromagnetic phenomena; Fabrication processes; Ferrous alloys; Finishing (metals); Foundry practices; Irradiation effects; Joining methods; Lattice defects; Machining; Metallic coatings; Metallography; Powder metallurgy; Refining; Smelting; Structural materials limitations; Thermal treatment; Working (metals).

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chafe, H. D.</td>
<td>Metallurgy</td>
<td>(216) 338-5151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; abstracts; indexes; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals: 1,200; reference lists/bibliographies. Total number of titles: 150,000.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal Abstracts</td>
<td>Metals abstracts-reviews of metal literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METALERT</td>
<td>Periodical retrospective bibliography and current awareness computer printout</td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Aluminum Abstracts</td>
<td>Abstracts index for aluminum technology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Accession of new acquisitions lists; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
MICROWAVE SPECTRAL DATA CENTER

ADDRESS: National Bureau of Standards
Washington, DC 20234

TELEPHONE: (301) 921-2024

DIRECTOR: Lovas, F. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To tabulate and evaluate microwave spectral frequencies and molecular parameters derived from data.

SUBJECT SCOPE: Microwave spectra of molecules and the physical properties derived therefrom.

MAJOR SUBJECT TERMS: Astronomy; Astrophysics; Cosmic radiation; Cosmic rays; Galactic radiation; Infrared technology; Interplanetary gases; Ionizing radiation; Microwave theory; Radiation; Radiation belts; Radiation detection; Radiation detectors; Radiation monitoring; Radiation physiological effects; Radiation protection; Radiation shielding; Shielding equipment; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: In addition to the publication of the extensive tables of microwave spectral data, a more specialized project concerning the critical analysis of the microwave spectrum of molecules identified in the interstellar medium via radioastronomy techniques. In addition to observed spectral frequencies, all microwave transitions that occur within the frequency range of radio telescopes are predicted with well-defined uncertainties by these analyses.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lovas, F. J.</td>
<td>Solid state physics</td>
<td>(301) 921-2024</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; statistical compilations.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

May 1973
MIDWEST RESEARCH INSTITUTE (MRI)

ADDRESS: 426 Volker Boulevard
Kansas City, MO 64110

TELEPHONE: (816)561-0202

DIRECTOR: Kimball, C.

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To define precise areas of individual client needs and provide him with a practical and realistic solution to his problem, within specific time and cost dimensions.

SUBJECT SCOPE: Physical, biological, and engineering sciences, including environmental concerns, health and safety, and materials; economics and management science, including product and process development, industrial technology, business planning and forecasting, marketing, and systems analysis; recreation, public and urban affairs, and regional development.

MAJOR SUBJECT TERMS: Air pollutants; Cryogenic systems materials selection; Environmental influences; Fire and explosion chemistry; Fire modeling; Flight simulation; Flight simulation operations; Human characteristics; Human factors design; Hydraulic fluids; Industrial safety; Instruments; Lubricants; Propellants and fuels; Safety engineering; Space simulation operations; Stress/strain analysis; Structural materials limitations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research in pollution control, education, law enforcement, business planning, traffic safety, drug abuse, cancer, effects of pesticides, bacteriology, immunology, virology, pharmacology, toxicology, biochemistry, biophysics, chemical and biochemical detection, biomedical materials, technology assessment, and other subject areas.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kimball, C.</td>
<td>Physical sciences</td>
<td>(816)561-0202</td>
</tr>
<tr>
<td>Stout, H. L.</td>
<td>Physics</td>
<td>(816)561-0202</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 240, nonprofessional 110, total 350; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies.

HOLDINGS: Books: 3,500; abstracts/indexes: 15; reports and reprints: 7,000; periodicals: 600; reference lists/bibliographies: 25; standards and specifications: 500; statistical compilations: 50. Total number of titles: 11,690; range of years of total: 1943 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traffic Safety Library</td>
<td>1955 - present</td>
<td>2,000</td>
<td></td>
</tr>
<tr>
<td>Bay Area Air Pollution Library</td>
<td>1935 - present</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td>EPIC</td>
<td>Environmental Pollution Information Center</td>
<td>1950 - present</td>
<td>400</td>
</tr>
<tr>
<td>ERIC</td>
<td>Energy Resources Information Center</td>
<td>1968 - present</td>
<td>100</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; courses/workshops; conferences/symposiums.
HOLDINGS: Books: 3,500; abstracts/indexes: 15; reports and reprints: 7,000; periodicals: 600; reference lists/bibliographies: 25; standards and specifications: 500; statistical compilations: 50. Total number of titles: 11,690; range of years of total: 1943 to date.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NASA SCIENTIFIC AND TECHNICAL INFORMATION OFFICE

ADDRESS: Office of Industry Affairs and Technology Utilization
Code: KS
Washington, DC
20546

TELEPHONE: (202) 755-3548

DIRECTOR: Pryor, H. E.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To collect, process, and announce scientific and technical information on worldwide aerospace research and development activities, and to disseminate this knowledge to the international scientific community.

SUBJECT SCOPE: Aerodynamics; aircraft; auxiliary systems; biosciences; biotechnology; chemistry; communications; computers, electronic equipment; electronics; fluid mechanics; geophysics; instrumentation and photography; machine elements and processes; masers; mathematics; meteorology; navigation; nuclear engineering; physics, general; atomic, molecular, nuclear, plasma, and solid-state physics; propulsion systems; space radiation; space sciences; space vehicles; structural mechanics; thermodynamics and combustion; metallic and nonmetallic materials; research and support facilities.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pryor, H. E.</td>
<td>Technical information</td>
<td>(202) 755-3548</td>
</tr>
<tr>
<td>Dropka, F. G.</td>
<td>Technical information</td>
<td>(202) 755-3582</td>
</tr>
<tr>
<td>Vlannes, P. N.</td>
<td>Technical information</td>
<td>(202) 755-3551</td>
</tr>
<tr>
<td>Rowsonoe, F. H.</td>
<td>Technical information</td>
<td>(202) 755-3568</td>
</tr>
<tr>
<td>Feinstein, P. S.</td>
<td>Technical information</td>
<td>(202) 755-3464</td>
</tr>
<tr>
<td>Wente, V. A.</td>
<td>Technical information</td>
<td>(202) 755-3466</td>
</tr>
</tbody>
</table>

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 900,000; range of years of total: 1961 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA/RECON</td>
<td>Information Retrieval System</td>
<td>1962 - present</td>
<td>900,000</td>
</tr>
<tr>
<td>NASA/SCAN</td>
<td>Current Awareness Service</td>
<td>1967 - present</td>
<td>400,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL AIRCRAFT ACCIDENT INVESTIGATION SCHOOL (WAAIS)

ADDRESS: Dulles International Airport
          PO Box 17226
          Washington, DC
          20041

TELEPHONE: (703) 471-1007

DIRECTOR: Nelmes, E. V.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation (National Transportation Safety Board)

MISSION: To train air safety investigators of the National Transportation Safety Board.

SUBJECT SCOPE: Aircraft accident investigations and related areas; aerodynamics, materials, metallurgy, structures, power plants, systems investigations, weather, navigation, and flight facilities.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aircraft problems; Airport emergency facilities; Codes; Commercial aviation; Detection and warning systems; Egress; Emergency descent; Fire fighting; Fire fighting equipment; Flight recorders; Regulations; Standards; Statutes; Vehicle fires; Vehicle fire prevention design.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nelmes, E. V.</td>
<td>Accident analysis</td>
<td>(703) 471-1007</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Books; reports and reprints; standards and specifications; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; analytical studies; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Staff or members of affiliated organizations; Government employees.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE)

ADDRESS: 2400 West Loop South
Houston, TX
77027

TELEPHONE: (713) 622-8900

DIRECTOR: Hull, J. T.

YEAR INFORMATION SOURCE BEGAN: 1945

MISSION: To encourage the recognition of corrosion as a technical problem requiring research by and education of skilled scientists to determine the causes, feasible solutions, and methods of prevention; to promote standardization of terminology, techniques, equipment, and design in corrosion control.

SUBJECT SCOPE: Corrosion causes, control and methods of prevention; environmental effects; materials problems in handling various chemicals; suitable test methods; processes involving analyses of high temperatures; effects of protective coatings and linings; techniques of surface preparation; testing and selection of materials; corrosion problems in metals; refining; petroleum production; chemical processes; plastics; pipelines; consulting, utilities, and other industries.

MAJOR SUBJECT TERMS: Coatings; Compatibility; Corrosion; Corrosion properties; Corrosives; Galvanic corrosion; Oxidation; Oxidation inhibitors; Oxidation stability.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research on corrosion.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hull, J. T.</td>
<td>Corrosion</td>
<td>(713) 622-8900</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; abstracts; indexes; technical reports; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR)

ADDRESS: PO Box 1470
Boulder, CO
80302

TELEPHONE: (303) 494-5151

DIRECTOR: Firoz, J. W. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: National Science Foundation and University Corporation for Atmospheric Research

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To serve as a focal point for a vigorous and integrated national research effort in the atmospheric sciences, aimed at achieving a deeper understanding of the total behavior of the atmosphere.

SUBJECT SCOPE: Atmospheric sciences, mathematics, physics, and chemistry.

MAJOR SUBJECT TERMS: Climatic ranges; Environmental influences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research programs with special emphasis on problems involving several scientific disciplines.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firoz, J. W.</td>
<td>Environmental Sciences</td>
<td>(303) 494-5151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973
NATIONAL CLIMATIC CENTER (NCC)

ADDRESS: Environmental Data Service  
Federal Building  
Asheville, NC  
28801

TELEPHONE: (704)254-0961 x683; FTS (704)254-0683

DIRECTOR: Haggard, W. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Oceanic and Atmospheric Administration)

YEAR INFORMATION SOURCE BEGAN: 1951

MISSION: To provide researchers in Government, private institutions, and industry, atmospheric scientists and engineers, and the general public with historical weather information and related products; to administer World Data Center A: Meteorology; to act as collection center and custodian of all US weather records; and to collect, quality control, summarize, publish, and distribute weather data.

SUBJECT SCOPE: Climatic information, including surface observations such as ceiling, sky cover, visibility, precipitation or other weather phenomena, obstructions to vision, pressure, temperature, dew point, wind direction and speed; upper air observations; radar observations; satellite data, maps and charts, and other meteorological and radiological data: climatology; air pollution; aviation meteorology, and marine weather data.

MAJOR SUBJECT TERMS: Air; Air pollution; Atmospheres; Atmospheric monitoring; Carbon dioxide; Carbon monoxide; Climatic ranges; Freezing point; Lightning; Lightning strikes; Low temperatures; Meteorology; Meteorological considerations; Nitrogen; Oxygen; Smoke; Smoke detectors; Upper atmosphere; Weather modification.

RESEARCH AND DEVELOPMENT ACTIVITIES: Research and development is conducted when assigned or approved by the Environmental Data Service.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haggard, W. H.</td>
<td>Environmental sciences</td>
<td>(704)254-0961</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional -, nonprofessional -, total 360; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; abstracts; technical reports; statistical compilations; periodicals/journals; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS (NCRP)

ADDRESS: 7910 Woodmont Avenue, Suite 1016
Bethesda, MD
20014

TELEPHONE: (301) 657-2652

DIRECTOR: Ney, W. R.

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, analyze, develop, and disseminate in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection.

SUBJECT SCOPE: The effects of radiation on man, radiation protection and measurement, biology, physics, chemistry, radiology, genetics, pathology, mathematics, dentistry, and veterinary medicine.

MAJOR SUBJECT TERMS: Detection; Ionizing radiation; Radiation; Radiation physiological effects; Radiation protection; Radioactive decontamination; Radioactive spills; Radioactive wastes; Radioisotopes applications; Shielding; Solar radiation; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Has access to research programs national and internationally more than 200 participating scientists.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ney, W. R.</td>
<td>Radiation</td>
<td>(301) 657-2652</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 6, total 9; part-time - professional 260, nonprofessional 0, total 260.

INTERNAL PUBLICATIONS: Technical reports; newsletters/trade literature; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals; bibliographic abstracts.

May 1973
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

ADDRESS: 470 Atlantic Avenue
Boston, MA 02210

TELEPHONE: (617) 482-8755

DIRECTOR: Morgan, C. P.

YEAR INFORMATION SOURCE BEGAN: 1896

MISSION: To promote the science and improve the methods of fire protection and prevention; to obtain and circulate information; and to secure the cooperation of its members and the public in establishing proper safeguards against loss of life and property by fire.

SUBJECT SCOPE: Fire prevention; fire protection; fire standards and codes; fire extinguishment systems; flammable liquids storage and handling; gas, electric, and marine fire protection; equipment; industrial fire protection; and fire prevention and protection of railroad properties.

MAJOR SUBJECT TERMS: Accidents; Chemical hazards; Cryogenic safety; Dangerous materials disposal; Explosives; Fire; Fire, explosion, and detonations; Fire point; Fire protection; Flash point; Fuel handling; Fuel storage; Fuel transportation; Hazard detection systems; Quantity/distance criteria; Shipping procedures; Shipping regulations; Transportation procedures; Transportation regulations.

SPECIAL SCOPE FEATURES: Fire and explosion in all environments.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on public fire protection and fire loss experience.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morgan, C. P.</td>
<td>Fire protection</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Stevens, R. E.</td>
<td>Structural engineering</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Babcock, C. I.</td>
<td>Plastics</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Woodworth, M. E.</td>
<td>Propellants and fuels</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Walls, W. L.</td>
<td>Dangerous materials</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Tryon, G. H.</td>
<td>Fire safety</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Grimes, M. H.</td>
<td>Fire fighting</td>
<td>(617) 482-8755</td>
</tr>
<tr>
<td>Peterson, C. E.</td>
<td>Fire hazard evaluation</td>
<td>(617) 482-8755</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIDO</td>
<td>Fire Incident Data Organization</td>
<td>1970 - present</td>
<td>12,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposi-ums.
USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
NATIONAL FLUID POWER ASSOCIATION (NFPA)

ADDRESS: PO Box 49
Thiensville, WI
53092

TELEPHONE: (414)242-4160

DIRECTOR: Pearce, T.

YEAR INFORMATION SOURCE BEGAN: 1953

MISSION: To further the application of fluid power; to conserve effort, improve efficiency, and lower the cost of production to both manufacturer and user; to foster the cooperative development of recommended standards and practices; and to provide a meeting ground where common problems can be discussed.

SUBJECT SCOPE: Fluid power pumps, motors, valves, cylinders, filters, fluidic devices, seals, accumulators, air purifying systems technology dealing with the control and transfer of power by means of a pressurized fluid.

MAJOR SUBJECT TERMS: Deflagrations; Explosions; Hydraulic components; Hydraulic fluids; Lubricants; Pneumatic components; Propellants.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearce, T.</td>
<td>Hydraulic engineering</td>
<td>(414)242-4160</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 8, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

ADDRESS: Division of Technical Services
PO Building, Room 506
Cincinnati, OH
45201

TELEPHONE: (513) 684-2141

DIRECTOR: Craft, B. F.


YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To engage in research, education, and training in a national effort to eliminate on-the-job hazards to the health and safety of America's working men and women.

SUBJECT SCOPE: Effects of exposure to hazardous substances in working environments; psychological, motivational, and behavioral factors involved in occupational safety and health.

MAJOR SUBJECT TERMS: Accident data; Accident/incident investigation; Dangerous industrial radiation; Environmental degradation; Fire fighting clothing; Handling procedures; Hazardous materials; Human factors; Ionizing radiation; Life support systems; Man-machine hazards; Personal protective clothing; Radiation detection; Radiation monitoring; Radioactive decontamination; Radioactive spills; Safety analysis; Safety engineering; Toxic gas; Toxic substances.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research designed to produce recommendations for new occupational safety and health standards.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craft, B. F.</td>
<td>Industrial safety and health</td>
<td>(513) 684-2141</td>
</tr>
<tr>
<td>Oser, J.</td>
<td>Technical information</td>
<td>(513) 684-2693</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; bibliographic abstracts.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
NATIONAL LIBRARY OF MEDICINE (NLM)

ADDRESS: 8600 Rockville Pike
Bethesda, MD
20014

TELEPHONE: (301)496-6308

DIRECTOR: Cummings, M. M.


YEAR INFORMATION SOURCE BEGAN: 1836

MISSION: To collect, organize, index, and disseminate useful information and new medical knowledge for all who are dedicated to the prevention and treatment of disease and disability.

SUBJECT SCOPE: Health sciences.

MAJOR SUBJECT TERMS: Aerospace medicine; Health hazards; Human factors; Medical sciences; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cummings, M. M.</td>
<td>Medical sciences</td>
<td>(301)496-6308</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 246, nonprofessional 216, total 462; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 1,500,000.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLARS</td>
<td>Journal citations</td>
<td>1964 - present</td>
<td>2,000,000</td>
</tr>
<tr>
<td>MEDLINE</td>
<td>Journal citations</td>
<td>1964 - present</td>
<td>2,000,000</td>
</tr>
<tr>
<td>TOXLINE</td>
<td>Pharmacology and toxicology citations</td>
<td>1948 - present</td>
<td>210,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL LP-GAS ASSOCIATION (NLPGA)

ADDRESS: 79 West Monroe Street
           Chicago, IL
           60603

TELEPHONE: (312) 372-5484

DIRECTOR: Johnson, W. H.

MISSION: To promote and develop the LP-gas industry and to coordinate its activities to the end that it may serve to the fullest possible extent the best interests of the public; to increase the effectiveness of gas service; and to advance knowledge in the sciences.

SUBJECT SCOPE: LP-gas, air pollution, flame weeding, thermal agriculture, safety, fire prevention, and product transportation.

MAJOR SUBJECT TERMS: Compressed gases; Cryogenic safety; Environmental effects; Handling procedures; Liquefied gases; Shipping procedures; Transportation procedures.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports development of new and expanding applications of LP-gas; reviews utilization research needs, and develops, encourages, coordinates, and recommends research programs to meet these needs.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnson, W. H.</td>
<td>Compressed gases; Liquefied gases</td>
<td>(312) 372-5484</td>
</tr>
<tr>
<td>Gumz, D. M.</td>
<td>Compressed gases, Liquefied gases</td>
<td>(312) 372-5484</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

REFERENCE AND QUERY SERVICES: Bibliographic abstracts.

OTHER SERVICES: Courses/workshops; conferences/symposia.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
NATIONAL REFERRAL CENTER

ADDRESS: Library of Congress
Science and Technology Division
10 First Street, SE
Washington, DC 20540

TELEPHONE: (202) 426-5670

DIRECTOR: McFarland, M. W.

PARENT-SPONSOR-HOST AFFILIATION: Library of Congress (Science and Technology Division)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To help people that have specific questions in science and technology (including the social sciences) by referring them to organizations that can answer the questions; to maintain a subject-indexed inventory of information sources specifically geared to this purpose.

SUBJECT SCOPE: Physical, biological, social, and engineering sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McFarland, M. W.</td>
<td>Technical information</td>
<td>(202) 426-5670</td>
</tr>
<tr>
<td>Price, J.</td>
<td>Technical information</td>
<td>(202) 426-5670</td>
</tr>
<tr>
<td>Trew, J. R.</td>
<td>Technical information</td>
<td>(202) 426-5664</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 9, nonprofessional 1, total 10; part-time - professional 6, nonprofessional 6, total 12.

HOLDINGS: Reference lists/bibliographies. Total number of titles: 80,000; range of years of total: 1963 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or ACRONYM</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRIS</td>
<td>Information about organizations</td>
<td>1963 - present</td>
<td>9,000</td>
</tr>
<tr>
<td>NRC-PUB</td>
<td>Directory entries</td>
<td>1969 - present</td>
<td>7,300</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
NATIONAL SAFETY COUNCIL

ADDRESS: 425 North Michigan Avenue
Chicago, IL
60611

TELEPHONE: (312) 527-4800

DIRECTOR: Pyle, H.

YEAR INFORMATION SOURCE BEGAN: 1913

MISSION: To arouse and maintain the interest of the people of the United States in safety and accident prevention; to determine and evaluate methods and procedures to prevent accidents and mitigate injury and economic loss, and provide leadership for adoption and use of those methods and procedures that best serve the public interest.

SUBJECT SCOPE: Industrial hygiene; aviation ground operations safety; driver training; accident analysis; fire prevention; prevention of home, farm, school, occupational, traffic, product, and recreational injuries.

MAJOR SUBJECT TERMS: Accident analysis; Accident prevention; Accidents/incidents; Airport emergency facilities/equipment; Emergency procedures; Fire protection; Hazardous materials; Safety analysis; Safety data sheets; Safety practices; Safety standards; Transportation regulations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts and encourages research and analysis of all aspects of the accident problem.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyle, H.</td>
<td>Safety</td>
<td>(312) 527-4800</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; newsletters/trade literature; conference papers; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973
NATIONAL SPACE SCIENCE DATA CENTER (NSSDC)

ADDRESS: Goddard Space Flight Center
Code 601
Greenbelt, MD
20771

TELEPHONE: (301)982 6695

DIRECTOR: Vette, J. I.

PARENT-SPONSOR-HOST AFFILIATION: National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To further the widest practicable use of reduced data obtained from space science investigations with an active repository of such data.

SUBJECT SCOPE: Ionospheres, radio physics, planetary atmospheres, particles and fields, solar physics, astronomy, planetology, selenology, meteorology, geomagnetism, aurora and airglow, cosmic rays, rockets and satellites, and space sciences.

MAJOR SUBJECT TERMS: Cosmic radiation; Cosmic rays; Electromagnetic interference; Electromagnetic radiation; Extraterrestrial environmental hazards; Geomagnetism; Information analysis; Ionizing radiation; Maintainability; Space vehicle problems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (X)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vette, J. I.</td>
<td>Electromagnetism</td>
<td>(301)982-6695</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIM</td>
<td>Spacecraft experiments, data sets</td>
<td>1958 - present</td>
<td>5,600</td>
</tr>
<tr>
<td>ROCKET</td>
<td>Sounding Rocket Launches</td>
<td>1947 - present</td>
<td>6,200</td>
</tr>
<tr>
<td>TRF</td>
<td>Technical Reference File</td>
<td>1958 - present</td>
<td>16,000</td>
</tr>
<tr>
<td>RASH</td>
<td>Request Accounting Status and History</td>
<td>1965 - present</td>
<td>11,000</td>
</tr>
<tr>
<td>DIST</td>
<td>Distribution Lists</td>
<td></td>
<td>6,900</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

ADDRESS: 5285 Port Royal Road
Springfield, VA
22151

TELEPHONE: (202) 967-2175

DIRECTOR: Knox, W. T.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce

MISSION: To act as central source for the public sale of Government-sponsored research and development reports and other Government analyses prepared by Federal agencies, their contractors, or grantees.

SUBJECT SCOPE: Aerospace and aerodynamics; astronomy and astrophysics; atmospheric sciences; biological and medical sciences; chemistry; civil, structural and marine engineering; communications; detection and countermeasures; earth sciences; electrotechnology; energy conversion; mathematics; methods, instrumentation, and equipment; military sciences; missile technology; navigation, guidance, and control; nuclear technology; ocean sciences; ordnance; physics; propulsion and fuels; reprography and recording devices; space technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

Knox, W. T. Technical information (202) 967-2175

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; periodicals/journals; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 700,000 range of years total: 1948 to date.

DATA BANK RESOURCES:

Name of Description of Contents Range of Years No. of
Acronym
GRA Government Reports Announcements 1964 - present 300,000

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NATIONAL TRANSPORTATION SAFETY BOARD (NTSB)

ADDRESS: 800 Independence Avenue, SW
Washington, DC
20591

TELEPHONE: (202) 426-8787

DIRECTOR: Reed, J. H.

PARENT–SPONSOR–HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To carry out investigations and make cause determinations of air and surface accidents, and to issue special studies and safety recommendations directed at preventing such accidents.

SUBJECT SCOPE: Aviation safety; surface transportation safety; pipeline transportation safety.

MAJOR SUBJECT TERMS: Accident analysis; Accident data; Accident/incident investigation; Accident/incident reporting; Aircraft problems; Commercial aviation; Codes; Emergency descent; Fire fighting; Fire fighting equipment; Flight recorders; Regulations; Standards; Statutes; Vehicle fire prevention design; Vehicles; Warning systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reed, J. H.</td>
<td>Safety engineering</td>
<td>(202) 426-8787</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NAVAL AEROSPACE RECOVERY FACILITY (WARF)

ADDRESS: Naval Air Systems Command
El Centro, CA
92243

TELEPHONE: (714) 339-2401

DIRECTOR: Rich, C. E. (Capt)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1973

MISSION: To conduct development, test, and evaluation of parachutes and related assemblies; human escape methods and systems; retardation and recovery systems; rescue survival and personnel safety equipment; stabilization, retardation, and recovery systems for lay-down type weapons, aircraft, missiles, and capsule assemblies.

SUBJECT SCOPE: Safety analysis; fabrication and maintenance of parachutes and associated test equipment; high-speed air-to-air and ground-to-air engineering surveillance, including closed-circuit TV and aerial photography; telemetry; communications; detection and tracking; electronic instrumentation; and metallurgical and chemical analysis of materials.

MAJOR SUBJECT TERMS: Emergency descent; Ground recovery facilities; Ground recovery operations; Life support design; Recovery systems; Reentry; Search and rescue operations; Test facilities; Test operations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rich, C. E.</td>
<td>Recovery operations</td>
<td>(714) 339-2401</td>
</tr>
<tr>
<td>Shaw, F. A.</td>
<td>Recovery operations</td>
<td>(714) 339-2581</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

May 1973
NAVAL AIR DEVELOPMENT CENTER (NADC)

ADDRESS: Department of the Navy
Warminster, PA
18974

TELEPHONE: (215) 672-9000

DIRECTOR: Hollingsworth, G. L.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1944

MISSION: To conduct program of research, design, development, test, and evaluation of aeronautical systems and components, and to perform research and development in the area of aviation medicine.

SUBJECT SCOPE: Aviation and space medicine, acceleration, biochemistry, physiology, psychology, simulation, vibration, space sciences, health physics, safety, chemistry, electrical and mechanical engineering, materials engineering, operations research, and mathematics.

MAJOR SUBJECT TERMS: Behavioral sciences; Biological sciences; Chemistry; Electrical/electronics engineering; Mathematical sciences; Physics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research and development in areas such as self-contained navigation systems, command and control, simulation techniques; surveillance systems, aircraft design, countermeasures, systems analysis, and aircrew support.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hollingsworth, G. L.</td>
<td>Engineering</td>
<td>(215) 672-9000</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 4, nonprofessional 7, total 11; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; graphics/tables.

HOLDINGS: Books: 7,000; abstracts/indexes: 8; reports and reprints: 50,000; periodicals: 300; reference lists/bibliographies: 100; standards and specifications; graphics/tables; statistical compilations; films and slides. Total number of titles: 57,408; range of years of total: 1940 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; industrial/corporate security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
NAVAL AIR PROPULSION TEST CENTER (IAPTC)

ADDRESS: Naval Air Systems Command
PO Box 176
Trenton, NJ
08628

TELEPHONE: (609) 882-1414

DIRECTOR: Williams, A. (Capt)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

DIRECTOR: 1967

MISSION: To test and evaluate aircraft propulsion systems, their components and accessories, and fuels and lubricants; and to perform applied research and development leading to correction of design deficiencies and service problems.

SUBJECT SCOPE: Aircraft propulsion systems; fuels; lubricants and power drives; fluids; engineering; materials; measurement; turbojet/turbofan; shaft powers and accessories.

MAJOR SUBJECT TERMS: Aircraft propulsion systems; Engineering; Fluids; Fuels; Lubricants; Materials.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs applied research and development leading to the correction of engine deficiencies.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Williams, A.</td>
<td>Aircraft propulsion systems</td>
<td>(609) 882-1414 x201</td>
</tr>
<tr>
<td>Stumpke, B.</td>
<td>Aircraft propulsion systems</td>
<td>(609) 882-1414 x301</td>
</tr>
<tr>
<td>Martino, A.</td>
<td>Aircraft propulsion systems</td>
<td>(609) 882-1414 x386</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 160, nonprofessional 475, total 635; part-time - professional 1, nonprofessional 2, total 3.

INTERNAL PUBLICATIONS: Statistical compilations; newsletters/trade literature.

HOLDINGS: Statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
NAVY MAINTENANCE AND MATERIAL MANAGEMENT SYSTEM (3-M SYSTEM)

ADDRESS: Navy Maintenance Support Office
(Code 313)
Mechanicsburg, PA
17055

TELEPHONE: (717) 766-8511 x2031

DIRECTOR: Brommer, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy, Chief of Naval Material)

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To design, develop, and operate a data accumulation and processing system for the Navy Maintenance and Material Management (3-M) System in order to provide maintenance and maintenance support data as required by all levels of Navy management.

SUBJECT SCOPE: Availability, reliability, failure rates, and maintenance costs; personnel requirements for ordnance, electronics, ships, and air systems maintenance.

MAJOR SUBJECT TERMS: Cryogenic systems materials selection; Inspection; Maintainability; Maintenance facilities; Maintenance operations; Reliability.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brommer, J. E.</td>
<td>Mechanical engineering</td>
<td>(717) 766-8511 x2031</td>
</tr>
<tr>
<td>Derstler, E. J.</td>
<td>Maintenance</td>
<td>(717) 766-8511 x2031</td>
</tr>
<tr>
<td>Peiffer, W. E.</td>
<td>Maintenance</td>
<td>(717) 766-8511 x2031</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 74, nonprofessional 9, total 83; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; statistical compilations; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-M Central Data Bank</td>
<td>1965 - present</td>
<td>200,000,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; analytical studies; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NEW ENGLAND RESEARCH APPLICATION CENTER (NERAC)

ADDRESS: University of Connecticut
Mansfield Professional Park
Storrs, CT 06268

TELEPHONE: (203) 429-5151; TWX (710) 420-0572

DIRECTOR: Wilde, D. U. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: University of Connecticut and National Aeronautics and Space Administration

MISSION: To provide custom information retrieval services to industrial and academic communities of knowledge and information/technology acquired by NASA, the US Department of Defense, the American Society for Metals, and other technical organizations.

SUBJECT SCOPE: Aerospace and aeronautics technology, engineering, chemistry, physics, nuclear sciences, materials.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wilde, D. U.</td>
<td>Technical information</td>
<td>(203) 429-5151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; periodicals/journals; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDC</td>
<td>Defense Documentation Center report literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METADEX</td>
<td>American Society for Metals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRA</td>
<td>National Technical Information Service report literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WAA</td>
<td>World Aluminum Abstracts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERIC</td>
<td>Educational Resources Information Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CA</td>
<td>Chemical Abstracts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASA</td>
<td>NASA report literature</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
NONDESTRUCTIVE TESTING INFORMATION ANALYSIS CENTER (NTIAC)

ADDRESS: US Army Materials and Mechanics Research Center
Watertown, MA
02172

TELEPHONE: (617) 926-1900 x343, x522; AV 684-8343, 684-8552

DIRECTOR: Merhib, C. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To collect, maintain, and disseminate information in the field of nondestructive testing (radiography, ultrasonics, electromagnetics, and other nondestructive testing methods).

SUBJECT SCOPE: Nondestructive testing, including eddy currents, electrified particle, electromagnetic, filtered particle, fluorescent penetration, Lamb-wave, magnetic particle, sonic, and spark tests.

MAJOR SUBJECT TERMS: Explosives safety; Flight controls; Instrumentation; Nondestructive testing; Pyrotechnic materials; Pyrotechnics; Quality control; Reliability; Safety practices; Test facilities; Test operations; Test techniques.

RESEARCH AND DEVELOPMENT ACTIVITIES: Associated with AMMRC.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merhib, C. P.</td>
<td>Nondestructive testing</td>
<td>(617) 926-1900</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMRA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDC TAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASA STAR</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; analytical studies; advisory and consulting services; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
NONDESTRUCTIVE TESTING INFORMATION CENTER (NTIC)

ADDRESS: Battelle Memorial Institute
505 King Avenue
Columbus, OH
43201

TELEPHONE: (614) 299-3151 x1859; TT (810) 482-1679

DIRECTOR: Meister, R. P.

PARENT-SPONSOR-HOST AFFILIATION: Battelle Memorial Institute

YEAR INFORMATION SOURCE BEGAN: 1969

MISSION: To provide support to division and departmental research staff with current awareness and background information on applications and development of nondestructive testing techniques relating to various materials and products.

SUBJECT SCOPE: Nondestructive testing techniques and equipment, including penetrating radiation (x-ray, gamma, neutron, and radiometry); ultrasonic, eddy current, magnetic particle, liquid penetrant, and infrared inspection; optical holography; and acoustic emission testing.

MAJOR SUBJECT TERMS: Analytical methods; Analytical techniques; Detection and warning systems; Hazard detection systems; Inspection; Infrared technology; Materials evaluation; Nondestructive testing; Radioisotopes applications; Test equipment; Test facilities; Test operations; Test techniques; Tests; Warning systems; X-ray technology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research related to specific materials and products; develops new inspection techniques, testing devices and signal-processing and analysis methods.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meister, R. P.</td>
<td>Nondestructive testing</td>
<td>(614) 299-3151</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASIS-70</td>
<td>Battelle Automated Search Information System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: Staff or members of affiliated organizations.

May 1973
NORTH CAROLINA SCIENCE AND TECHNOLOGY RESEARCH CENTER (NC/STRC)

ADDRESS: Box 12235
Research Triangle Park, NC
27709

TELEPHONE: (919)549-8291

DIRECTOR: Chenery, P. J.

PARENT-SPONSOR-HOST AFFILIATION: North Carolina Department of Natural and Economic Resources (Board of Science and Technology)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To operate a NASA-sponsored regional dissemination center to assist industry and research organizations in the southeastern United States to solve their technical problems.

SUBJECT SCOPE: Noise and hearing conservation; space sciences; chemistry; biomedical engineering; electronics; management techniques; air pollution; aerodynamics and aircraft; biosciences; chemistry; geophysics; instrumentation and photography; masers; materials; mathematics; meteorology; physics; propellants and propulsion systems; thermodynamics and combustion; communications; energy systems; transportation systems; auxiliary systems; biotechnology; computers; structural mechanics; research and support facilities; fluid mechanics; navigation; nuclear engineering; textile technology; food science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Grants for research by parent organization.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chenery, P. J.</td>
<td>Technical information</td>
<td>(919)549-8291</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td></td>
<td>1962-present</td>
<td>611,293</td>
</tr>
<tr>
<td>DDC USGDR ERA</td>
<td></td>
<td>1964-present</td>
<td>207,824</td>
</tr>
<tr>
<td>ERIC</td>
<td>RIE and CIJE</td>
<td>1967-present</td>
<td>125,625</td>
</tr>
<tr>
<td>ITT</td>
<td>Institute of Textile Technology</td>
<td>1967-present</td>
<td>84,117</td>
</tr>
<tr>
<td>WTA</td>
<td>World Textile Abstracts</td>
<td>1970-present</td>
<td>28,790</td>
</tr>
<tr>
<td>FSTA</td>
<td>Food Science and Technology Abstracts</td>
<td>1972-present</td>
<td>19,187</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
NUCLEAR SAFETY INFORMATION CENTER (NSIC)

ADDRESS: Oak Ridge National Laboratory
PO Box Y
Oak Ridge, TN
37830

TELEPHONE: (615) 483-8611 x3-7253; FTS (615) 483-7253

DIRECTOR: Cottrell, W. B.

PARENT-SPONSOR-HOST AFFILIATION: Union Carbide Corporation for the US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To collect, store, evaluate and disseminate nuclear safety information; to expedite the utilization of relevant nuclear safety information throughout the nuclear community; and to enhance the development of nuclear power.

SUBJECT SCOPE: General safety criteria; siting, containment, and plant safety features for nuclear facilities; transportation and handling of radioactive materials; aerospace safety; heat transfer and thermal transients; reactor transients, kinetics and stability; fission product release, transport, and removal; sources of energy release under accident conditions; nuclear instrumentation, control and safety systems; electrical power systems; radionuclide release and movement in the environment; environmental surveys, monitoring, and radiation exposure of man; meteorological considerations; operational safety and experience; and safety analysis and design reports.

MAJOR SUBJECT TERMS: Accident/incident investigation; Accident/incident reporting; Ionizing radiation; Nuclear power plants; Nuclear radiation; Radiation; Radiation detection; Radiation protection; Radiation resistance; Radioactive wastes.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs research activities in subject areas, using staff scientists and engineers who work part-time at the center and devote the other portion of their time to research in their particular specialties.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buchanan, J. R.</td>
<td>Nuclear safety</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Cottrell, W. B.</td>
<td>Nuclear safety</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Hagen, E. W.</td>
<td>Instrumentation</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Keiholtz, G. W.</td>
<td>Physical chemistry</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Houser, B. L.</td>
<td>Nuclear radiation</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Robinson, G. C.</td>
<td>Mechanical engineering</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Scott, R. L.</td>
<td>Nuclear engineering</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Swisher, S. D.</td>
<td>Meteorology</td>
<td>(615) 483-8611</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 10, nonprofessional -, total 10; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Abstracts; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually, retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
NUMERICAL CONTROL SOCIETY (NCS)

ADDRESS: PO Box 138
Spring Lake, NJ 07762

TELEPHONE: (201) 449-1400

DIRECTOR: White, W. H.

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To promote numerical control education and technology; to develop, recommend, and disseminate numerical control evaluation and justification analyses; to collect, store, and disseminate all phases of numerical control information; and to recommend and disseminate numerical control standards.

SUBJECT SCOPE: Numerically controlled equipment for machining, metalworking, torch cutting, bending, textiles, inventory and warehousing control, computer aided manufacturing, computer aided design.

MAJOR SUBJECT TERMS: Aircraft instrumentation; Fabrication processes; Flight controls; Flight recorders; Machinery; Machining; Mill process; Numerical control; Warning systems.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts numerical control language evaluation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, W. H.</td>
<td>Numerical control</td>
<td>(201)449-1400</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 3, nonprofessional 0, total 3.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; periodicals/journals; newsletters/trade literature; conference papers.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; advisory and consulting services; referrals.

OTHER SERVICES: Interlibrary loans; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

ADDRESS: US Department of Labor
Washington, DC
20210

TELEPHONE: (202) 961-3914

DIRECTOR: Sharkey, S. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Labor

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To assure so far as possible every working man and woman in the nation safe and healthful working conditions; and to promulgate, modify, and invoke safety and health standards.

SUBJECT SCOPE: Construction, materials, occupational safety and health, machinery, agriculture, electricity and electrical systems, equipment, fire protection systems, maritime dock safety, hazards, medicine, sanitation, and textiles.

MAJOR SUBJECT TERMS: Airport emergency facilities/equipment; Detection and warning systems; Egress; Fire accident training; Fire fighting clothing; Fire fighting equipment; Impact; Physiological stress; Psychological stress; Restraint systems; Safety analysis; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts job safety and health research.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharkey, S. M.</td>
<td>Industrial safety and health</td>
<td>(202) 961-3914</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: General technology community; immediate staff or members; Government employees.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
OFFICE OF STANDARD REFERENCE DATA (NSRDS)

ADDRESS: National Bureau of Standards  
Washington, DC  
20234

DIRECTOR: Lide, D. R.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To promote optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal Government; to promote the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System; and to provide publications of interest to the scientific and technical community.

SUBJECT SCOPE: Physical sciences, nuclear properties, atomic and molecular properties, solid state properties, chemical kinetics, colloid and surface properties, mechanical properties, and thermodynamic and transport properties.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical hazards; Compressed gases; Contamination; Corrosion characteristics; Cryogenic system hazards; Cryogenic system materials selection; Explosives; Fire retardant materials; Flammables; Hazardous materials; Liquefied gases; Materials types; Oxidation; Physical characteristics; Pyrotechnics; Radiation effects; Shock and vibration; Stress; Structural materials limitations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lide, D. R.</td>
<td>Physical sciences</td>
<td></td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 9, nonprofessional 7, total 16; part-time - professional 2, nonprofessional 0, total 2.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations. Total number of titles: 2,200.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: On-site use of collection; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

May 1973
OFFICE OF STANDARD REFERENCE MATERIALS (SRM)

ADDRESS: National Bureau of Standards
Washington, DC
20234

TELEPHONE: (202) 921-2318

DIRECTOR: Cali, J. P.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1906

MISSION: To prepare, characterize and sell Standard Reference Manuals; to improve methods of preparation, characterization, and standardization through basic and applied research; to cooperate with Government, the scientific community, and industry in providing leadership in developing standards of the highest quality for measuring and characterizing materials.

SUBJECT SCOPE: Following types of standards: chemical; clinical laboratory; microchemical; biological; ion activity; metallo-organic; radioactivity; environmental research, analysis, and control; physical properties and mechanics; metrology; and engineering.

MAJOR SUBJECT TERMS: Analytical methods; Construction materials; Evaluation; Materials; Materials research; Materials standardization; Standard reference; Standards.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No., and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cali, J. P.</td>
<td>Standard reference</td>
<td>(202) 921-2318</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Analytical studies.

OTHER SERVICES: Conferences/symposiums.

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
OFFICE OF TELECOMMUNICATIONS (OT)

ADDRESS: US Department of Commerce
Washington, DC 20402

TELEPHONE: (202) 967-5171

DIRECTOR: Richardson, J. M.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To conduct technical research needed in the evaluation and development of telecommunications policy as required by the Executive Office of the President; to assist in the management of Federal use of the radio spectrum; to assist other Federal agencies, states, and communities in the use of telecommunications; to conduct research, engineering, and analysis to meet specific government concerns; to serve as a source of information on the efficient use of telecommunications resources and to stimulate effective development and exchange of this information; and to serve as Federal information center for the emergency telephone number, 911.

SUBJECT SCOPE: Telecommunications systems, including cable television, satellite communication systems; mobile radio services, computer linkage, privately-owned attachments entering the telephone network, and video recorders.

MAJOR SUBJECT TERMS: Aircraft communications; Air navigation aids; Air traffic control; Air traffic control facilities; Electronic countermeasures; Electromagnetic disturbances; Electromagnetic interference; Electromagnetic radiation; Radar detection; Radar navigation; Radiation detection; Radiation monitoring; Radiation physiological effects; Radiation protection; Radio communication systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No., and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richardson, J. M.</td>
<td>Physical sciences; Communications</td>
<td>(202) 967-5171</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; periodicals/journals; conference papers; reference lists/bibliographies; standards and specifications.

HOLDINGS: Books; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Analytical studies.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

May 1973
PENNSYLVANIA TRANSPORTATION AND TRAFFIC SAFETY CENTER (PTTSC)

ADDRESS: Automotive Safety Research Division
         Research Building B
         University Park, PA
         16802

TELEPHONE: (814) 865-1891

DIRECTOR: Larson, T. D.

PARENT-SPONSOR-HOST AFFILIATION: Pennsylvania State University

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To establish educational and research programs to improve mobility in our society, to promote educational opportunities for those engaged in transportation and traffic safety, and to gather, organize, and disseminate knowledge to those working in transportation and traffic safety fields.

SUBJECT SCOPE: Road user research, automotive safety, and transportation systems.

MAJOR SUBJECT TERMS: Accident analysis; Accident/incident investigation; Highway safety; Human factors; Human factors analysis; Human factors design; Personal protective equipment; Personnel certification; Personnel selection; Psychological stress; Psychology; Restraint systems; Safety analysis; Safety engineering; Systems safety; Toxicology; Transportation; Transportation engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Advances, through basic and applied research, understanding of the various elements that influence the overall transportation networks.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larson, T. D.</td>
<td>Safety analysis</td>
<td>(814) 865-1891</td>
</tr>
<tr>
<td>Meyer, W. E.</td>
<td>Mechanics of structural failure; machine hazards</td>
<td>(814) 865-1891</td>
</tr>
<tr>
<td>Olsen, R. A.</td>
<td>Safety analysis</td>
<td>(814) 865-1891</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional - nonprofessional - total 107; part time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: None (unclassified materials).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
PHOTONUCLEAR DATA CENTER

ADDRESS: National Bureau of Standards
Center for Radiation Research
Washington, DC
20234

TELEPHONE: (301)921-2625

DIRECTOR: Fuller, E. G.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To systematically collect, abstract, index, and evaluate experimental data on the interaction of electromagnetic radiation with nuclei; to maintain a digitized data library and serve as a central information center for the field of photonuclear reaction.

SUBJECT SCOPE: Interactions of electromagnetic radiation with nuclei, including cross section data for inelastic electron scattering, photon scattering, particle capture, and photonuclear reactions.

MAJOR SUBJECT TERMS: Atomic physics; Dangerous industrial radiation; Electromagnetic phenomena; Electromagnetic radiation; Ionizing radiation; Nuclear physics; Transport properties.

RESEARCH AND DEVELOPMENT ACTIVITIES: Evaluates experimental data.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuller, E. G.</td>
<td>Electromagnetic radiation</td>
<td>(301)921-2625</td>
</tr>
<tr>
<td>Gerstenberg, H.</td>
<td>Electromagnetic radiation</td>
<td>(301)921-2625</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 1, total 4; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; conference papers; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints: 2,000; periodicals; reference lists/bibliographies; graphics/tables: 575; statistical compilations. Range of years of total: 1955 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>INDEX</td>
<td>Annotated Reaction Data</td>
<td>1955 - present</td>
<td>4,200</td>
</tr>
<tr>
<td>Digitized Data</td>
<td>Photonuclear Cross Sections</td>
<td>1955 - present</td>
<td>575</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
PITTSBURGH MINING AND SAFETY RESEARCH CENTER (PMSRC)

ADDRESS: Bureau of Mines
4800 Forbes Avenue
Pittsburgh, PA 15213

TELEPHONE: (412) 892-2400

DIRECTOR: Van Dolah, R. W.

PARENT-SPONSOR-HOST AFFILIATION: US Department of the Interior (Bureau of Mines)

MISSION: To maintain research and technological work of the Bureau of Mines, primarily in the field of explosives, explosions, and flames, and health-related hazards associated with the mine environment.

SUBJECT SCOPE: Explosives, fires and toxic effects, industrial hazards and communications, methane control and ventilation, roof control, materials handling, dust control and life support, safety research model coal mine, theoretical physics, mathematics, thermohydrodynamics, industrial hygiene.

MAJOR SUBJECT TERMS: Accident/incident investigation; Air pollution control; Atmospheric monitoring; Biomedical engineering; Breathing apparatus; Carbon dioxide; Carbon monoxide; Combustible gas detectors; Escape; Explosions; Explosives; Explosives safety; Fire and explosion dynamics; Fire extinguishment; Fire fighting; Life support systems; Mining; Safety laws; Safety regulations; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on mine accidents involving illumination, electricity, noise, haulage; causes, prevention, and effects of gas and dust explosions and fires; control of respirable coal mine dust on life-support systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Van Dolah, R. W.</td>
<td>Fire, explosion, and detonations;</td>
<td>(412) 892-2400 x602</td>
</tr>
<tr>
<td>Palowitch, E. R.</td>
<td>Mining</td>
<td>(412) 892-2400 x624</td>
</tr>
<tr>
<td>Burgess, D. S.</td>
<td>Fire, explosion, and detonations</td>
<td>(412) 892-2400 x364</td>
</tr>
<tr>
<td>Courtney, W. G.</td>
<td>Life support</td>
<td>(412) 892-2400 x606</td>
</tr>
<tr>
<td>Zabetakis, M. G.</td>
<td>Cryogenic safety</td>
<td>(412) 892-2400 x607</td>
</tr>
<tr>
<td>Goode, C. A.</td>
<td>Mining</td>
<td>(412) 892-2400 x615</td>
</tr>
<tr>
<td>Murphy, J. N.</td>
<td>Man-machine hazards</td>
<td></td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 123, nonprofessional 119, total 242; part-time - professional 15, nonprofessional 5, total 20.

INTERNAL PUBLICATIONS: Technical reports; periodicals/journals; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes: 10; reports and reprints: 15,000; periodicals: 70; reference lists/bibliographies: 10. Total number of titles: 18,000; range of years of total: 1933 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: Charge for non-Government users.

May 1973
POWER INFORMATION CENTER (PIC)

ADDRESS: University City Science Institute
3401 Market Street
Room 2210
Philadelphia, PA 19104

TELEPHONE: (215) 382-8683; (215) 382-8674

DIRECTOR: Peirson, J. J.

PARENT-SPONSOR-HOST AFFILIATION: Interagency Advanced Power Group

YEAR INFORMATION SOURCE BEGAN: 1960

MISSION: To act as a secretariat to the IAPG, and as a center for the collection and dissemination of information on energy sources and conversion techniques.

SUBJECT SCOPE: Nonpropulsive power; electrochemistry; electromagnetics; electrostatics; magnetohydrodynamics; power conditioning; thermoelectrics; photoelectrics; mechanical conversion techniques; chemical, nuclear, and solar energy sources.

MAJOR SUBJECT TERMS: Auxiliary power systems; Chemical characteristics; Electrical/electronics engineering; Electricity; Energy conversion; Life support systems; Nuclear energy; Nuclear reactor applications; Power sources; Propellants and fuels; Thermal energy.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peirson, J. J.</td>
<td>Electrical/electronics engineering</td>
<td>(215) 382-8683</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Indexes; technical reports; conference papers.

HOLDINGS: Abstracts/indexes; reports and reprints.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews.

OTHER SERVICES: Conferences/symposiums.

USER RESTRICTIONS: Registration with DDC

May 1973
PROJECT SETE

(Secretariat for Electronic Test Equipment)

ADDRESS: Research Division - Building No. 3
233 Fordham Landing Road
Bronx, NY
10468

TELEPHONE: (212) 584-0700

DIRECTOR: Goodman, D. M.

PARENT-Sponsor-HOST AFFILIATION: New York University (School of Engineering and Science)

YEAR INFORMATION SOURCE BEGAN: 1955

MISSION: To serve as a national center for the accumulation, coordination, analysis, and exchange of scientific, technical, and management information in the specialized field of electronic test, checkout, and support equipment.

SUBJECT SCOPE: General-purpose electronic test equipment; built-in test and monitoring equipment; on-line automatic test equipment; off-line (shop) automatic test equipment; calibration devices and techniques; missile, aircraft, and electronic systems checkout; simulators and trainers; and new measurement techniques.

MAJOR SUBJECT TERMS: Built-in test equipment; Electromagnetic interference; Electromagnetic radiation; Flight controls; Instruments; Lasers; Launch base operations; Microwave theory; Nondestructive testing; Quality control; Radiation; Reliability; Servicing; Test equipment; Test facilities; Test operations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Publishes reports on electronic test, maintenance, and management, based on literature research and discussions with personnel of research and development facilities operated by NASA, FAA, and commercial contractors.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goodman, D. M.</td>
<td>Electrical/electronics engineering</td>
<td>(212) 584-0700</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 9, total 12; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Conference papers.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; courses/workshops.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
RADIATION CHEMISTRY DATA CENTER (RCDC)

ADDRESS: Radiation Laboratory
University of Notre Dame
Notre Dame, IN 46556

TELEPHONE: (219) 283-6528

DIRECTOR: Ross, A. B.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards) and the US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect all available information on radiation chemistry, and to provide a means of making selected and evaluated data available to scientists throughout the world.

SUBJECT SCOPE: Radiation chemistry.

MAJOR SUBJECT TERMS: Electromagnetic disturbances; Electromagnetic radiation; Fission product release; Galactic radiation; Ionizing radiation; Radiation belts; Radiation detection; Radiation physiological effects; Radiation protection; Radioisotopes applications; Solar radiation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ross, A. B.</td>
<td>Radiation chemistry</td>
<td>(219) 283-6528</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 3, total 6; part-time - professional 3, nonprofessional 1, total 4.

INTERNAL PUBLICATIONS: Indexes; technical reports; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books: 100; abstracts/indexes: 13,000; reports and reprints: 17,000; periodicals: 12.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
RADIATION SHielding INFORMATION CENTER (RSIC)

ADDRESS: Oak Ridge National Laboratory
PO Box X
Oak Ridge, TN
37830

TELEPHONE: (615) 483-8611 x3-6944; FTS (615) 483-6944

DIRECTOR: Maskewitz, B. F.

PARENT-SPOnsor-Host AFFIliATION: US Atomic Energy Commission and Union Carbide Corp. (Nuclear Division)

YEAR INFORMATION SOURCE BEGAN: 1962

MISSION: To serve the international shielding community by engaging in research and development for the design of shields that provide protection from biological and physical damage due to penetrating ionizing radiation.

SUBJECT SCOPE: Shielding of radiation from nuclear reactors, nuclear weapons, radioisotopes, accelerators, and radiation in space.

MAJOR SUBJECT TERMS: Cosmic radiation; Cosmic rays; Electromagnetic radiation; Ionizing radiation; Nuclear power plant safety design; Nuclear radiation; Personal protection equipment; Radiation; Radiation belts; Radiation detection; Radiation effects; Radiation resistance; Radiation shielding; Radiation tolerance levels; Solar radiation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maskewitz, B. F.</td>
<td>Computer sciences; Nuclear physics</td>
<td>(615) 483-8611 x3-6944</td>
</tr>
<tr>
<td>Boussin, R. W.</td>
<td>Nuclear engineering</td>
<td>(615) 483-8611 x3-6944</td>
</tr>
<tr>
<td>Trubey, D. K.</td>
<td>Radiation shielding</td>
<td>(615) 483-8611</td>
</tr>
<tr>
<td>Zobel, W.</td>
<td>Nuclear physics</td>
<td>(615) 483-8611</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 8, total 11; part-time - professional 4, nonprofessional 2, total 6.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations. Total number of titles: 4,000.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>SABIS</td>
<td>RSIC storage and retrieval system</td>
<td>1964 - present</td>
<td>4,000</td>
</tr>
<tr>
<td>RECON</td>
<td>NASA</td>
<td>1972 - present</td>
<td>2,000</td>
</tr>
<tr>
<td>CBRE</td>
<td>RSIC data bank</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; accession of new acquisition lists; interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government contractors.

USER RESTRICTIONS: None (unclassified material); Federal or defense industrial security clearance (in some cases); registration with DDC (in some cases).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
RADIO TECHNICAL COMMISSION FOR AERONAUTICS (RTCA)

ADDRESS: Suite 655
1717 H Street, NW
Washington, DC
20006

TELEPHONE: (202) 296-0484

DIRECTOR: Potter, R. E.

YEAR INFORMATION SOURCE BEGAN: 1935

MISSION: To advance aeronautics by providing open forums, project studies, and guidance to industry and government, and by operating as a source of information on common problems and requirements, developments, and potential applications within the state of the art.

SUBJECT SCOPE: Aviation electronics and telecommunications, including operational characteristics, state-of-the-art developments and applications, test procedures, aeronautical frequency spectrum utilization, air traffic control, navigation, airports, and airspace use efficiency.

MAJOR SUBJECT TERMS: Air navigation aids; Air traffic control facilities; Air traffic control operations; Aircraft communications; Communications; Communications systems; Emergency equipment; Flight recorders; Navigation equipment; Navigation systems; Radar navigation; Radio communication systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potter, R. E.</td>
<td>Radio communication systems</td>
<td>(202) 296-0484</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

USER QUALIFICATIONS: General technology community.

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
RARE-EARTH INFORMATION CENTER (RIC)

ADDRESS: Institute for Atomic Research
Iowa State University
Ames, IA
50010

TELEPHONE: (515) 294-2272

DIRECTOR: Gschneidner, K. A.

PARENT-SPONSOR-MOST AFFILIATION: Iowa State University (Institute for Atomic Research)

YEAR INFORMATION SOURCE BEGAN: 1966

MISSION: To serve the scientific community by collecting, storing, evaluating, and disseminating rare-earth information from various sources.

SUBJECT SCOPE: Metallurgy; solid state physics; analytical, inorganic, and physical chemistry; ceramics technology; geochemistry; toxicity of rare-earth elements and compounds.

MAJOR SUBJECT TERMS: Analytical chemistry; Ceramics; Ferrous metals; Geochemistry; Inorganic chemistry; Physical properties; Metallurgy; Mining; Rare-earth information; Solid state physics; Toxic substances.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gschneidner, K. A.</td>
<td>Metallurgy</td>
<td>(515) 294-2272</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; reports and reprints; periodicals; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
REDSTONE SCIENTIFIC INFORMATION CENTER (RSIC)

ADDRESS: US Army Missile Research, Development, and Engineering Laboratory
Redstone Arsenal, AL
35809

TELEPHONE: (205) 876-4643

DIRECTOR: Kobler, J. S.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1949

MISSION: To furnish scientific and technical information support to the Marshall Space Flight Center, the US Army Missile Command, and other local DoD agencies and their local contractors.

SUBJECT SCOPE: Scientific and technical information in virtually all subject areas.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Receives technical reports from research and development sources (Government and contractors).

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kobler, J. S.</td>
<td>Technical information</td>
<td>(205) 876-4643</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 27, nonprofessional 11, total 38; part-time - professional 1, nonprofessional 0, total 1.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; reference lists/bibliographies.

HOLDINGS: Books: 170,000; abstracts/indexes; reports and reprints: 1,200,000; periodicals: 3,000; reference lists/bibliographies; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>THDB</td>
<td>Terminal Homing Data Bank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRandD</td>
<td>Independent Research and Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASA STAR</td>
<td>Scientific and Technical Reports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASA CSTAR</td>
<td>Classified Scientific and Technical Reports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDC TAB</td>
<td>Technical Abstracts Bulletin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AEC NSA</td>
<td>Atomic Energy Commission Nuclear Science Abstracts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIAA IAA</td>
<td>International Aerospace Abstracts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; translations.

OTHER SERVICES: On-site use of collection; interlibrary loans...

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; government employees; Government contractors.

May 1973
REGIONAL INFORMATION AND COMMUNICATION EXCHANGE (RIC2)

ADDRESS: Fondren Library
Rice University
Houston, TX
77001

TELEPHONE: (713) 528-4141 x317, x298

DIRECTOR: Paddock, R.

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To transfer technical information to a user quickly and accurately; to assist in the economic growth of the region as a byproduct of technology transfer; to serve the information needs of business, industry, and education.

SUBJECT SCOPE: Sciences and engineering.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Applied research; Basic materials; Basic research; Bibliographies; Biomedical engineering; Chemical engineering; Civil engineering; Electrical/electronics engineering; Hydraulic engineering; Material processes engineering; Mechanical engineering; Systems engineering; Transportation engineering.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddock, R.</td>
<td>Technical information</td>
<td>(713) 528-4141</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books: 650,000; abstracts/indexes; reports and reprints: 10,000; periodicals; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; referrals; bibliographic abstracts; translations; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; interlibrary loans; reproduction/publication services; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
RELIABILITY ANALYSIS CENTER (RAC)

ADDRESS: Rome Air Development Center (RBRAC)
Griffiss Air Force Base
New York, NY
13441

TELEPHONE: (315) 330-3472

DIRECTOR: Lauffenburger, H. A.

PARENT-SPONSOR-HOST AFFILIATION: IIT Research Institute and US Department of Defense

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To disseminate reliability and experience information on microcircuit devices to manufacturers and users of microcircuit components and products; to upgrade electronic systems through better understanding of the nature of microcircuit failures leading to improved designs and applications; and to reduce costs by eliminating redundant testing and data collection activities.

SUBJECT SCOPE: Failure rates and environmental test data, malfunction history, and failure mode and mechanism information; consultation services, including reliability prediction and assessment, analyses of candidate device technologies and failure mode and effect, device selection, design of screen and burn-in provisions, reliability tradeoff studies in microcircuit technology, including semiconductor integrated circuits, thick and thin film circuits, and large scale arrays.

MAJOR SUBJECT TERMS: Aerospace safety engineering; Air navigation; Aircraft communications; Aircraft subsystems; Communications; Control systems; Displays; Instruments; Maintainability; Quality control; Reliability; Safety engineering; Space vehicle problems; Tests; Vehicle subsystems; Warning systems.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lauffenburger, H. A.</td>
<td>Reliability analysis</td>
<td>(315) 330-3472</td>
</tr>
<tr>
<td>Mirth, L. A.</td>
<td>Microcircuits</td>
<td>(315) 330-4151</td>
</tr>
<tr>
<td>Fuqua, N. B.</td>
<td>Electronic networks/circuits</td>
<td>(315) 330-4151</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 10, nonprofessional 4, total 14; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
RESEARCH MATERIALS INFORMATION CENTER (RMIC)

ADDRESS: Oak Ridge National Laboratory
PO Box X
Oak Ridge, TN 37830

TELEPHONE: (615) 483-8611 x1287; FTS (615) 483-1287

DIRECTOR: Connolly, T. F.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1963

MISSION: To provide information to the scientific community on the availability, preparation, and properties of high-purity inorganic research materials.

SUBJECT SCOPE: Materials science, with emphasis on high-purity inorganic research materials such as metals, alloys, semiconductors, refractory or insulating compounds, laser and maser and other optical materials, and magnetic materials.

MAJOR SUBJECT TERMS: Crystal structures; Fuels; Hydraulic fluids; Lubricants; Materials research; Propellants; Radioisotopes applications; Structural materials limitations.

SPECIAL SCOPE FEATURES: Emphasis is on solid-state research specimens. Engineering or safety not covered.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connolly, T. F.</td>
<td>Materials</td>
<td>(615) 483-8611</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; statistical compilations; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations. Total number of titles: 80,000; range of years total: 1963 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; bibliographic abstracts.

USER QUALIFICATIONS: General technology community.

May 1973
ROCKWELL TECHNICAL INFORMATION PROCESSING SYSTEM (TIPS)

ADDRESS: Rockwell International Corporation, Electronics Group
9/503/C34
Anaheim, CA
92803

TELEPHONE: (714) 632-1391

DIRECTOR: Dorsey, W. S.

PARENT-SPONSOR-HOST AFFILIATION: Rockwell International Corporation

YEAR INFORMATION SOURCE BEGAN: 1964

MISSION: To provide information visibility and retrieval among the several participating and geographically dispersed Rockwell International divisions; to provide computer-prepared catalogs and indexes; to provide computerized SDI and retrospective searches; to provide microfiche service.

SUBJECT SCOPE: Aerospace technology, physical sciences, military sciences, aeronautics, electronics and microelectronics science and technology, computer science and technology.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Economics; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dorsey, W. S.</td>
<td>Technical information</td>
<td>(714) 632-1391</td>
</tr>
<tr>
<td>Panek, R. L.</td>
<td>Lexicography</td>
<td>(714) 632-8538</td>
</tr>
<tr>
<td>Sindel, J. K.</td>
<td>Lexicography</td>
<td>(714) 632-1391</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 6, total 9; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Book catalogs; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials; magnetic tape bibliographic data.

HOOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Accession of new acquisition lists; reproduction/publication services.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: Industrial/corporate security clearance.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
SAFETY OF EXPLOSIVE ORDNANCE DATABANK (SAFEORD)

ADDRESS: US Naval Weapons Laboratory
Code EST-FH
Dahlgren, VA 22448

TELEPHONE: (703) 663-7201

DIRECTOR: Hanzel, F. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1970

MISSION: To provide rapid automatic retrieval of safety information on naval weapons systems in the Fleet and under development, to participate in accident trend analysis, and to assist in current efforts to quantify safety through a safety index for weapons systems.

SUBJECT SCOPE: Weapons systems safety requirements, test results and recommendations, safety certifications, simulation studies, ergonomics and health physics, explosives and propellant materials safety test data.

MAJOR SUBJECT TERMS: Accident/incident reporting; Ballistic missiles; Explosions; Explosive devices; Explosive devices tests; Explosive materials; Explosive materials tests; Explosives; Explosives disposal; Explosives safety; Explosives technology; Initiator materials; Initiators safety; Initiators technology; Munitions; Propellants; Propellants and fuels; Pyrotechnic materials; Pyrotechnic safety; Pyrotechnic technology.

RESEARCH AND DEVELOPMENT ACTIVITIES: Performs design, development, safety test, and evaluation of explosive weapon systems for the Navy.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanzel, F. J.</td>
<td>Explosives</td>
<td>(703) 663-7201</td>
</tr>
<tr>
<td>Fitzpatrick, J. G.</td>
<td>Explosives</td>
<td>(703) 663-8171</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 0, nonprofessional 2, total 2; part-time - professional 1, nonprofessional 2, total 3.

INTERNAL PUBLICATIONS: Indexes; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Reports and reprints; standards and specifications; graphics/tables; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAFEORD</td>
<td>Navy Explosive Ordnance Safety Data</td>
<td>1969-1972</td>
<td></td>
</tr>
<tr>
<td>SAFEORD</td>
<td>Navy Explosive Ordnance Items</td>
<td>1969-1972</td>
<td>1120</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; referrals; scientific or statistical data retrieval/compilation.

OTHER SERVICES: On-site use of collection; reproduction/publication services.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: Federal security clearance; registration with DDC.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
SAR-ASSIST, INC.

ADDRESS: One Island Lane
Greenwich, CT
06830

TELEPHONE: (203) 869-1322

DIRECTOR: Heath, G. W.

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To act as a consultant on search, rescue, survival, and safety in aeronautics and astronautics, including space rescue.

SUBJECT SCOPE: Space rescue and recovery; search, rescue, survival and safety in aeronautics and astronautics.

MAJOR SUBJECT TERMS: Abort procedures; Air rescue/recovery operations; Crews; Decompression; Emergency descent; Emergency planning; Emergency procedures; Escape; Impact; Life support; Meteorological considerations; Personal protective equipment; Physiological effects; Physiological stress; Psychological stress; Recovery; Rescue; Search and rescue; Search and rescue operations; Survival.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heath, G. W.</td>
<td>Search and rescue</td>
<td>(203) 869-1322</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Indexes; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; graphics/tables.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
SCIENCE INFORMATION SERVICES (SIS)

ADDRESS: The Franklin Institute
20th and Benjamin Franklin Parkway
Philadelphia, PA
19103

TELEPHONE: (215) 448-1218; TWX (710) 670-1889

DIRECTOR: Peters, A.

PARENT-SPONSOR-HOST AFFILIATION: The Franklin Institute Research Laboratories

YEAR INFORMATION SOURCE BEGAN: 1961

MISSION: To gather, analyze, and process information according to the requirements, specifications, and criteria of the user.

SUBJECT SCOPE: Environmental pollution; air, solid waste management, water, noise and vibration, pesticides, Caribbean-region marine science and biology, membrane technology; biomedicine; alcoholism, psychopharmacology, carcinogenesis, drug abuse, food additives; occupational health; materials technology; plastics, powder metallurgy, urethane, ion exchange, ozone, and welding and brazing.

MAJOR SUBJECT TERMS: Air pollution control; Environmental sciences; Mechanical engineering; Organic chemistry; Physical sciences; Plastics; Polymers; Powder metallurgy; Water pollution; Water resources.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research in the basic and applied sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peters, A.</td>
<td>Technical information</td>
<td>(215) 448-1218</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; analytical studies; advisory and consulting services; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Reproduction/publications services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: Ad hoc permission.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
SHOCK AND VIBRATION INFORMATION CENTER (SVIC)

ADDRESS: Naval Research Laboratory
Code 8404
Washington, DC
20375

TELEPHONE: (202) 767-2220

DIRECTOR: Belsheim, R. O. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Navy)

YEAR INFORMATION SOURCE BEGAN: 1946

MISSION: To collect, evaluate, and file information on current and past studies of mechanical shock and vibration technology; to disseminate such information to the user; to encourage the solution of shock and vibration problems.

SUBJECT SCOPE: Shock and vibration information, instrumentation and measurement techniques; test techniques, prediction of dynamic environments, dynamics of materials, isolation and damping, dynamic analysis, structural analysis, reliability, mechanical impedance; and effects of acoustic, thermal, and radiation phenomena on structures and equipment.

MAJOR SUBJECT TERMS: Acoustic loading; Acoustic radiation; Acoustics; Fatigue (materials); Reliability; Reliability analysis; Shock; Shock and vibration; Structural mechanics.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belsheim, R. O.</td>
<td>Shock and vibration</td>
<td>(202) 767-2220</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; technical reports; periodicals/journals; conference papers; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; state-of-the-art reviews; referrals.

OTHER SERVICES: On-site use of collection; conferences/symposia.

USER QUALIFICATIONS: General technology community.

May 1973
SHOCK WAVE DATA CENTER

ADDRESS: Lawrence Radiation Laboratory, S Division
PO Box 808
Livermore, CA
94550

TELEPHONE: (415)447-1100 x7791

DIRECTOR: Van Thiel, M.

PARENT-SPONSOR-HOST AFFILIATION: US Atomic Energy Commission

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To collect shock wave information on solids and liquids, to check the internal consistency of the data, to complete the required tabular presentation, and to critically evaluate the compiled results.

SUBJECT SCOPE: Shock wave information on chemically classifiable materials, including shock and particle velocity, pressure, compression, and density for all Hugoniot curves.

MAJOR SUBJECT TERMS: Environmental effects; Explosives; Materials; Noise; Nuclear blast; Physics; Shock and vibration.

STAFF SUBJECT SPECIALISTS:

Name: Van Thiel, M.  Subject Specialty: Physics  Tel. No. and Ext. (x): (415)447-1100 x7791

INTERNAL PUBLICATIONS: Graphics/tabular materials.

HOLDINGS: Reports and reprints; graphics/tables.

DATA BANK RESOURCES:

Name or ACRONYM: COMPRENDIUM  Description of Contents: Data Tables and description  Range of Years: 1956-66  No. of Records: 390

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; state-of-the-art reviews; referrals; scientific or statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
SMITHSONIAN SCIENCE INFORMATION EXCHANGE (SSIE)

ADDRESS: 300 Madison National Bank Building
1730 M Street, NW
Washington, DC
20036

TELEPHONE: (202) 381-5511

DIRECTOR: Hersey, D. F.

PARENT-SPONSOR-HOST AFFILIATION: Smithsonian Institution

YEAR INFORMATION SOURCE BEGAN: 1949

MISSION: To promote the timely exchange of information on current research activities of government and nongovernment agencies and institutions.

SUBJECT SCOPE: Physical sciences, including engineering, chemistry and chemical engineering, earth and space sciences, electronics and electrical engineering, materials, mathematical sciences, and physics; life sciences, including medicine, biology, and agricultural sciences; social sciences; and behavioral sciences.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on selected problems in information analysis and retrieval, focusing at present on machine-aided indexing and on-line retrieval.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hersey, D. F.</td>
<td>Technical information</td>
<td>(202) 381-5511</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; abstracts; indexes; technical reports; statistical compilations; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes; reports and reprints: 200,000; reference lists/bibliographies; statistical compilations. Range of years of total: 1948 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; referrals; bibliographic abstracts; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for users outside organization.

May 1973
SOCIETY FOR COMPUTER SIMULATION (SCi)

ADDRESS: PO Box 2228
1010 Pearl Street
La Jolla, CA
92037

TELEPHONE: (714)459-3888

DIRECTOR: Rogers, S.

YEAR INFORMATION SOURCE BEGAN: 1952

MISSION: To advance computer simulation and allied technology.

SUBJECT SCOPE: Computer modeling and simulation in the physical, social, and life sciences, mathematics, engineering, medicine, management, government, and problems of society and the environment.

MAJOR SUBJECT TERMS: Fire modeling; Fire models; Fire simulation; Flight simulation; Flight simulation facilities; Flight simulation operations; Human factors; Human functions; Space simulation facilities; Space simulation operations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rogers, S.</td>
<td>Computer sciences</td>
<td>(714)459-3888</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Books; periodicals/journals; newsletters/trade literature; conference papers.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: Courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (SAE)

ADDRESS: Two Pennsylvania Plaza
New York, NY
10001

TELEPHONE: (212) 594-5700

DIRECTOR: Gilbert, J.

YEAR INFORMATION SOURCE BEGAN: 1905

MISSION: To promote the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, and components thereof, and related equipment.

SUBJECT SCOPE: Aircraft, aerospace systems, space technology; passenger cars, trucks, and buses; farm machinery, off-highway vehicles, and construction equipment; engineering materials; fuels and lubricants; vehicle maintenance and operation; transportation safety, vehicle emissions; and engineering education.

MAJOR SUBJECT TERMS: Air pollutants; Anthropometry; Biomechanics; Environmental degradation; Fuels; Hand tools; Health hazards; Hydraulic fluids; Industrial safety; Jet propulsion fuels; Lubricants; Machinery safety; Maintainability; Reciprocating engines; Restraints; Structural failure; Structural materials limitations; Survival; Turbine engines.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research in pilot visibility, accident effects on drivers and passengers, and optimum location of controls.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gilbert, J.</td>
<td>Mechanical engineering</td>
<td>(212) 594-5700</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: Reproduction/publication services; courses/workshops; conferences/symposia.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
SOCIETY OF THE PLASTICS INDUSTRY, INC. (SPI)

ADDRESS: 250 Park Avenue
New York, NY 10017

TELEPHONE: (212) 687-2675

DIRECTOR: Bonhaus, D.

YEAR INFORMATION SOURCE BEGAN: 1937

MISSION: To promote the application and use of plastics; to advance plastics markets, develop and report technology and solve problems in the best interests of the industry and the public.

SUBJECT SCOPE: Resins; industrial hygiene; materials; fire protection; safety standards; plastics; molders, extruders, fabricators, laminators, and sheet formers; cellular foam, urethane foam applicators and fluorocarbons; machinery.

MAJOR SUBJECT TERMS: Elastomers; Fabrication; Fire protection; Foams; Industrial hygiene; Laminates; Materials; Plastics; Safety standards.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research within the industry and with other industries and organizations.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonhaus, D.</td>
<td>Plastics</td>
<td>(212) 687-2675</td>
</tr>
<tr>
<td>Condit, C. L.</td>
<td>Reinforced plastics</td>
<td>(212) 687-2675</td>
</tr>
<tr>
<td>Montell, E. S.</td>
<td>Machinery; Standards</td>
<td>(212) 687-2675</td>
</tr>
<tr>
<td>Carroll, J. P.</td>
<td>Safety</td>
<td>(212) 687-2675</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional -, nonprofessional --, total 50; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; conference papers; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables.

REFERENCE AND QUERY SERVICES: Questions answered individually.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposiums.

May 1973
SOUTHWEST RESEARCH INSTITUTE

ADDRESS: 8500 Culebra Road
PO Drawer 28510
San Antonio, TX
78284

TELEPHONE: (512) 684-5111 x2122

DIRECTOR: Hoffman, H. I.

YEAR INFORMATION SOURCE BEGAN: 1947

MISSION: To conduct industrial research; to work in the public interest in cooperation with industry, government, and individuals to produce a better life through science and technology.

SUBJECT SCOPE: Chemistry and chemical engineering; biosciences and bioengineering; basic and applied physics; electrical and electronic engineering; applied electromagnetics; structural research; materials; applied mechanics; aerospace lubrication; friction, wear, and bearings; fuels and lubricants; naval science and oceanography; automotive research and vehicles; and social and management sciences.

MAJOR SUBJECT TERMS: Aircraft problems; Cryogenic safety; Dangerous industrial radiation; Dangerous materials; Fire, explosion, and detonations; Hydraulic fluids; Industrial safety and health; Launch base operations; Lubricants; Man-machine hazards; Nuclear safety; Propellants and fuels; Quality control; Reliability; Space vehicle problems; Structural failure; Tests.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoffman, H. I.</td>
<td>Chemical engineering</td>
<td>(512) 684-5111 x2122</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 360, nonprofessional 820, total 1180; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations.

REFERENCE AND QUERY SERVICES: State-of-the-art reviews; analytical studies; advisory and consulting services.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: Immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
SPACE AND MISSILE TEST CENTER

ADDRESS: US Air Force Systems Command
Vandenberg AFB, CA
93437

DIRECTOR: Lowe, J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

MISSION: To provide range facilities, related services, and associated manpower in support of missile operations; to ensure that all necessary safety precautions are implemented and requirements met for all vehicles launched from the missile sites.

SUBJECT SCOPE: Limitations of safety responsibility; range safety data requirements; emergency hold fire; meteorological restrictions; warning signals; surveillance; lead and support ranges; spacecraft launches; approval of safety plans; radionuclide devices; safety operating procedures for guided ballistic missiles, cruise vehicles, and unguided rockets; pre-launch requirements for pads; biological safety; pressurized systems; ordnance; electrical systems; equipment failure for command and control; flight termination; launch area surveillance; communications; and accident analyses.

MAJOR SUBJECT TERMS: Accident procedures; Aerospace ground facilities; Aerospace safety engineering; Air rescue/recovery operations; Air traffic control facilities; Aircraft servicing; Environmental degradation; Fuel farm facilities/operations; Launch complexes; Launch operations; Maintainability; Maintenance facilities; Mission control facilities; Propulsion systems; Protective clothing; Personal protective equipment; Range operations; Reliability; Test facilities.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowe, J.</td>
<td>Missiles</td>
<td></td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; periodicals; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Advisory and consulting services; referrals.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
STANDARDS INFORMATION SERVICES (SIS)

ADDRESS: National Bureau of Standards
Technology Building, Room B159
Washington, DC
20234

TELEPHONE: (301) 921-2587

DIRECTOR: Slattery, W. J.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1968

MISSION: To maintain a reference collection of engineering and related standards issued by US technical societies, professional organizations and trade associations, US Federal Government agencies, and the major foreign, national, and international standardizing bodies; to compile general and special indexes of standards; and to provide information on the sources and availability of standards.

SUBJECT SCOPE: US, foreign, and international engineering and related standards, specifications, test methods, and recommended practices.

MAJOR SUBJECT TERMS: Codes; Flammability testing; Physical properties; Quality control; Regulations; Standards; Statutes; Test facilities; Test operations; Test techniques.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slattery, W. J.</td>
<td>Standards; Engineering</td>
<td>(301) 921-2587</td>
</tr>
<tr>
<td>Chumas, S. J.</td>
<td>Standards</td>
<td>(301) 921-2587</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 2, nonprofessional 2, total 4; part-time - professional 0, nonprofessional 1, total 1.

INTERNAL PUBLICATIONS: Indexes.

HOOLDINGS: Books: 900; abstracts/indexes: 5; periodicals: 100; standards and specifications: 120,000. Total number of titles: 121,000; range of years of total: 1947 to present.

REFERENCE AND QUERY SERVICES: Questions answered individually; selective dissemination of information; referrals.

OTHER SERVICES: On-site use of collection.

USER QUALIFICATIONS: General technology community; immediate staff or members; staff or members of affiliated organizations; ad hoc permission; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
STEEL FOUNDERS' SOCIETY OF AMERICA (SFSA)

ADDRESS: Cast Metals Federation Building
20611 Center Ridge Road
Rocky River, OH 44116

TELEPHONE: (216) 333-9600

DIRECTOR: Simonelli, F. J.

YEAR INFORMATION SOURCE BEGAN: 1902

MISSION: To promote the general welfare of all engaged in or affected by the manufacture and sale of steel castings or of alloy castings.

SUBJECT SCOPE: Steel or alloy castings and related processes.

MAJOR SUBJECT TERMS: Casting; Ferrous metals; Industrial processes; Industrial safety; Nickel; Physical metallurgy; Stainless steel; Steel; Steel alloys; Steel construction; Stress/strain analysis; Structural engineering.

RESEARCH AND DEVELOPMENT ACTIVITIES: Sponsors research on casting.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simonelli, F. J.</td>
<td>Metallurgy</td>
<td>(216) 333-9600</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 5, nonprofessional 5, total 10; part-time - professional 0, nonprofessional 3, total 3.

INTERNAL PUBLICATIONS: Books; abstracts; technical reports; periodicals/journals; conference papers.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually, retrospective searches; advisory and consulting services; referrals; bibliographic abstracts.

OTHER SERVICES: On-site use of collection; interlibrary loan; conferences/symposiums.

USER QUALIFICATIONS: General technology community; immediate staff or members.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users; charge for users outside organization.

May 1973
SYSTEM SAFETY OFFICE, ELECTRONIC SYSTEMS DIVISION

ADDRESS: ESD/SE, Stop 27
Hanscom Field
Bedford, MA
01730

TELEPHONE: (617) 861-2934

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Air Force)

MISSION: To assure that safety for both personnel and equipment is considered by the engineer when designing new electronic systems for the Air Force.

SUBJECT SCOPE: Design factors, personnel, avionics, ground equipment and facilities.

MAJOR SUBJECT TERMS: Accident prevention; Aircraft communications; Electrical/electronics engineering; Electronic components; Electronic countermeasures; Electronic devices; Electronic networks/circuits; Electronic properties; Electronics; Ferroelectrics; Radar detection; Radar navigation; Radio communication systems; Safety analysis; Systems safety.

INTERNAL PUBLICATIONS: Handbooks/manuals.

HOOLDINGS: Standards and specifications: 20.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; referrals.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations.

USER RESTRICTIONS: Compliance with AFM 190-4.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
TECHNOLOGY APPLICATION CENTER (TAC)

ADDRESS: University of New Mexico
Albuquerque, NM
87131

TELEPHONE: (505) 277-3622

DIRECTOR: Shinnick, W. A.

PARENT-SPONSOR-HOST AFFILIATION: University of New Mexico and National Aeronautics and Space Administration

YEAR INFORMATION SOURCE BEGAN: 1965

MISSION: To transmit information to the scientific and economic communities through highly developed retrieval techniques, and through storage of information from a great many sources, including NASA.

SUBJECT SCOPE: Environmental pollution, heat pipe technology, engineering, materials, industrial applications, earth sciences, nuclear technology, physics, integrated circuit technology, remote sensing, oceanography, statistics, photography.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Nuclear sciences; Oceanography; Physical sciences; Physics; Space sciences.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on heat pipes, pollution studies, technology assessment, remote sensing, space photography, electric energy conversion, technology transfer.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shinnick, W. A.</td>
<td>Statistics</td>
<td>(505) 277-4000</td>
</tr>
<tr>
<td>Long, W. W.</td>
<td>Engineering</td>
<td>(505) 277-3118</td>
</tr>
<tr>
<td>Burch, E.</td>
<td>Information systems</td>
<td>(505) 277-3111</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 5, nonprofessional 3, total 8; part-time - professional 6, nonprofessional 8, total 14.

INTERNAL PUBLICATIONS: Books; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAR</td>
<td>Aerospace Related Information</td>
<td>1962 - present</td>
<td>600,000</td>
</tr>
<tr>
<td>GSA</td>
<td>Physical sciences, social sciences, economics</td>
<td>1964 - present</td>
<td>125,000</td>
</tr>
<tr>
<td>EI</td>
<td>Engineering Index</td>
<td>1968 - present</td>
<td>400,000</td>
</tr>
<tr>
<td>CA</td>
<td>Chemistry</td>
<td>1968 - present</td>
<td>150,000</td>
</tr>
<tr>
<td>ERIC</td>
<td>Primary and Secondary Education</td>
<td>1968 - present</td>
<td>125,000</td>
</tr>
<tr>
<td>BA</td>
<td>Biological Abstracts</td>
<td>1959 - present</td>
<td>1,500,000</td>
</tr>
<tr>
<td>MEDLINE</td>
<td>Medical Information</td>
<td>1970 - present</td>
<td>400,000</td>
</tr>
<tr>
<td>FS</td>
<td>Food Science Technology</td>
<td>1969 - present</td>
<td>70,000</td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; reproduction/publication services; courses/workshops; conferences/symposia.
TECHNOLOGY APPLICATION CENTER (TAC)

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
THERMODYNAMICS RESEARCH CENTER (TRC)

ADDRESS: Department of Chemistry
Texas A and M University
College Station, TX
77843

TELEPHONE: (713) 846-8765

DIRECTOR: Zwolinski, B. J.

PARENT-SPONSOR-HOST AFFILIATION: Texas A and M University

YEAR INFORMATION SOURCE BEGAN: 1942

MISSION: To conduct extensive literature searches, experimental and theoretical research, selection, and correlation of data related to physical thermodynamic and spectral properties of organic compounds.

SUBJECT SCOPE: Organic compounds, particularly hydrocarbons and certain organic oxygen, nitrogen, sulfur, and halogen compounds; pressure-volume-temperature relations of fluids; heats of combustion of polymers and sterically hindered, polyatomic compounds.

MAJOR SUBJECT TERMS: Chemical characteristics; Chemical properties; Compounds; Entropy; Organic chemistry; Physical characteristics; Physical properties; Thermodynamic properties; Thermodynamics.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on organic chemicals and their related compounds.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zwolinski, B. J.</td>
<td>Thermodynamics</td>
<td>(713) 846-8765</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 16, nonprofessional 20, total 36; part-time - professional 15, nonprofessional 2, total 17.

INTERNAL PUBLICATIONS: Book catalogs; books; handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; reference lists/bibliographies; standards and specifications.

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; referrals; scientific or statistical data retrieval compilation.

USER QUALIFICATIONS: General technology community.

May 1973
THERMOPHYSICAL PROPERTIES INFORMATION ANALYSIS CENTER (TPIAC)

ADDRESS: Purdue Industrial Research Park
2595 Yeager Road
West Lafayette, IN
47906

TELEPHONE: (317) 463-1581

DIRECTOR: Touloukian, Y. S.

PARENT-SPONSOR-HOST AFFILIATION: Purdue University (Thermophysical Properties Research Center), US Dept. of Defense, and US Dept. of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1957

MISSION: To become a world center for research and the collection, analysis, correlation, and dissemination of thermophysical properties information; and to promote a better understanding of this subject in education, science, and industry.

SUBJECT SCOPE: Transport and thermodynamic properties encountered in heat and mass transfer; calculations for elements and chemical compounds, ferrous and nonferrous alloys, mixtures, composites, polymers, rubbers, refractories, glasses, natural products, minerals, paints, surface finishes, slags, scales, aggregates, ceramics, fuels, lubricants, fibers, fabrics, pharmaceuticals, insulations, building materials, residues.

MAJOR SUBJECT TERMS: Density; Entropy; Specific heat; Thermal conductivity; Thermodynamic properties; Viscosity.

RESEARCH AND DEVELOPMENT ACTIVITIES: Associated with the Thermophysical Properties Research Center, which performs theoretical and experimental research.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touloukian, Y. S.</td>
<td>Thermodynamics</td>
<td>(317) 463-1581</td>
</tr>
<tr>
<td>Shafer, W. H.</td>
<td>Thermophysical properties</td>
<td>(317) 463-1581</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 15, nonprofessional 11, total 26; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; statistical compilations; newsletters/trade literature; graphics/tabular materials; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 70,000; reports and reprints: 65,000. Total number of titles: 135,000; range of years of total: 1900 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials Directory and Synonyms</td>
<td>45,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Coding by Properties</td>
<td>300,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bibliographic citations</td>
<td>1900 - 1972</td>
<td>70,000</td>
<td></td>
</tr>
<tr>
<td>Author Index</td>
<td></td>
<td>60,000</td>
<td></td>
</tr>
<tr>
<td>EPIC</td>
<td>Electrical and electronic properties of materials</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation; translations.

OTHER SERVICES: Interlibrary loans; reproduction/publication services; courses/workshops; conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
TIN RESEARCH INSTITUTE, INC. (TRI)

ADDRESS: 438 West Sixth Street
Columbus, OH 43201

TELEPHONE: (614) 294-3341

DIRECTOR: Hoare, W. E. (Dr)

PARENT-SPONSOR-HOST AFFILIATION: Tin Research Institute, England

YEAR INFORMATION SOURCE BEGAN: 1932

MISSION: To further the development of tin technology, based on scientific and technical studies of the uses of the metal, its alloys, and compounds, and of industrial processes which use tin or may provide future markets.

SUBJECT SCOPE: Metallurgy, chemistry, and organotins, including pesticides, repellants, bactericides, and fungicides for environmental control; solders and soldering; antifouling rubbers, sintered iron, bronze, and gunmetals; and bearing alloys.

MAJOR SUBJECT TERMS: Air pollution control; Bronze; Chemistry; Industrial safety and health; Metallic coatings; Metallurgical processes; Metallurgy; Metal powders; Metals and alloys; Tin.

RESEARCH AND DEVELOPMENT ACTIVITIES: Supports research to develop uses of tin, its alloys, and compounds.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoare, W. E.</td>
<td>Metallurgy</td>
<td>(614) 294-3341</td>
</tr>
<tr>
<td>Hampshire, W. B.</td>
<td>Metallurgy</td>
<td>(614) 294-3341</td>
</tr>
<tr>
<td>Long, J. B.</td>
<td>Metallurgy</td>
<td>(614) 294-3341</td>
</tr>
<tr>
<td>Bihl, J. M.</td>
<td>Chemistry</td>
<td>(614) 294-3341</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 3, nonprofessional 0, total 3; part-time - professional 0, nonprofessional 2, total 2.

INTERNAL PUBLICATIONS: Books; handbooks/manuals; technical reports; reference lists/bibliographies.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; advisory and consulting services; translations.

OTHER SERVICES: Interlibrary loans; courses/workshops; conferences/symposiums.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
TOXICOLOGY INFORMATION PROGRAM (TIP)

ADDRESS: National Library of Medicine
8600 Rockville Pike
Bethesda, MD
20014

TELEPHONE: (301) 496-3147; TWX 89-521

DIRECTOR: Kissman, H. M. (Dr)


YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To create a computer-based toxicology data bank from the scientific literature and from the files of collaborating industrial, academic, and governmental agencies; and to establish toxicology information services for the scientific communities.

SUBJECT SCOPE: Pesticides, drug reactions and poisonings in humans and animals, chemicals, toxicology, environmental pollution, and drug interactions.

MAJOR SUBJECT TERMS: Air pollutants; Air pollution; Physiology; Toxic gas; Toxic substances; Toxicology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kissman, H. M.</td>
<td>Toxicology</td>
<td>(301) 496-3147</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; abstracts; indexes; technical reports; statistical compilations; periodicals/journals; newsletters/trade literature; reference lists/bibliographies

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; reference lists/bibliographies; statistical compilations.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOXLINE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; state-of-the-art reviews; bibliographic abstracts; scientific or statistical data retrieval/compilation; custom abstracting and indexing services.

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
TRANSPORTATION SAFETY INSTITUTE (TSI)

ADDRESS: 6500 South MacArthur Boulevard
Oklahoma City, OK
73125

TELEPHONE: (405) 686-2614

DIRECTOR: Creson, R. F.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Transportation

YEAR INFORMATION SOURCE BEGAN: 1971

MISSION: To foster transportation safety management and technology by developing and conducting safety training commensurate with DoT objectives and modal requirements, by conducting safety seminars, and by performing special safety studies.

SUBJECT SCOPE: Aircraft, rail, and motor carrier accident prevention and investigation; air, rail, and motor carrier transportation of hazardous materials; track and railroad equipment standards and inspection; aviation security; gas pipeline systems safety; marine casualty investigation; occupational health and safety standards applications to railroad safety; materials/equipment failure analysis, design evaluation and system safety of all modal/intermodal transportation systems.

MAJOR SUBJECT TERMS: Accident analysis; Accident prevention; Accident/incident investigation; Accidents; Aerospace safety engineering; Air transportation; Commercial aviation; Education and training; Fire extinguishment; Fire safety; Personnel training; Safety analysis.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creson, R. F.</td>
<td>Safety</td>
<td>(405) 686-2614</td>
</tr>
<tr>
<td>Allen, W. H.</td>
<td>Aviation safety</td>
<td>(405) 686-2614</td>
</tr>
<tr>
<td>Largess, D. L.</td>
<td>Safety</td>
<td>(405) 686-2614</td>
</tr>
<tr>
<td>Fitzpatrick, J. F.</td>
<td>Safety</td>
<td>(405) 686-2615</td>
</tr>
<tr>
<td>Thomas, J. C.</td>
<td>Safety</td>
<td>(405) 686-2615</td>
</tr>
<tr>
<td>Bensmiller, A. C.</td>
<td>Safety</td>
<td>(405) 686-2615</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 12, nonprofessional 3, total 15; part-time - professional 46, nonprofessional 0, total 46.

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports; statistical compilations.

HOLDINGS: Reports and reprints; standards and specifications; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services.

OTHER SERVICES: Courses/workshops.

USER QUALIFICATIONS: Immediate staff or members; staff or members of affiliated organizations; Government employees; Government contractors.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
UNDERWRITERS' LABORATORIES, INC. (UL)

ADDRESS: 207 East Ohio Street
Chicago, IL
60611

TELEPHONE: (312) 642-6969

DIRECTOR: Whitaker, H. B.

YEAR INFORMATION SOURCE BEGAN: 1894

MISSION: To establish, maintain, and operate laboratories for the investigation of materials, devices, products, equipment, constructions, methods, and systems with respect to hazards affecting life and property.

SUBJECT SCOPE: Burglary protection and signaling; casualty and chemical hazards; electricity; fire protection; heating, air conditioning, and refrigeration; marine equipment; safety standards; medical and dental products; and industrial trucks (internal combustion engines).

MAJOR SUBJECT TERMS: Dangerous materials; Detection and warning systems; Equipment; Fire and explosion chemistry; Fire and explosion dynamics; Fire extinguishment testing; Fire fighting clothing; Fire fighting equipment; Fire modeling; Fire retardant materials; Flammability testing; Machinery safety; Radiation detection; Radiation protection; Safety analysis of equipment; Safety engineering; Test facilities; Test operations.

RESEARCH AND DEVELOPMENT ACTIVITIES: Conducts research on fire hazards and fire resistance.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whitaker, H. B.</td>
<td>Chemical engineering</td>
<td>(312) 642-6969</td>
</tr>
<tr>
<td>Davis, E. N.</td>
<td>Engineering</td>
<td>(312) 272-8800</td>
</tr>
<tr>
<td>Bono, J. A.</td>
<td>Fire protection</td>
<td>(312) 272-8800</td>
</tr>
<tr>
<td>Mazzoni, S.</td>
<td>Heating; Air conditioning</td>
<td>(312) 272-8800</td>
</tr>
<tr>
<td>Saunders, G. W.</td>
<td>Security</td>
<td>(312) 272-8800</td>
</tr>
<tr>
<td>Pope, G. H.</td>
<td>Chemical hazards</td>
<td>(312) 272-8800</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 450, nonprofessional 1650, total 2100; part-time - professional 0, nonprofessional 0, total 0.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; periodicals/journals; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; abstracts/indexes; reports and reprints; periodicals; standards and specifications; graphics/tables; films and slides.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; scientific or statistical data retrieval/compilation.

OTHER SERVICES: Conferences/symposiums.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: Charge for some services to qualified users.

May 1973
US ARMY ENVIRONMENTAL HYGIENE AGENCY (USAHA)

ADDRESS: Edgewood Arsenal, MD
21010

TELEPHONE: (301) 671-3353

DIRECTOR: Anderson, J. E. (Col)

PARENT-SPOONOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

YEAR INFORMATION SOURCE BEGAN: 1942

MISSION: To provide environmental hygiene services and information to Army commands, installations, and activities worldwide.

SUBJECT SCOPE: Occupational and environmental health, preventive medicine, occupational nursing, industrial hygiene, radiation protection, environmental engineering, radiation hygiene, chemistry, medical entomology, toxicology, occupational vision.

MAJOR SUBJECT TERMS: Acoustics; Air pollutants; Air pollution; Biomechanics; Biotechnology; Dangerous industrial radiation; Dangerous materials; Hygiene; Ionizing radiation; Noise; Nuclear fuels; Nuclear power plant operation; Nuclear radiation; Personal protective equipment; Physiology; Radiation detection; Radioactive spills; Sanitation.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leroy, G. Jr</td>
<td>Environmental sciences</td>
<td>(301) 671-3353</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 250, nonprofessional 50, total 300; part-time - professional 0, nonprofessional 12, total 12.

INTERNAL PUBLICATIONS: Handbooks/manuals; indexes; technical reports; statistical compilations; reference lists/bibliographies; standards and specifications; graphics/tabular materials.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies; standards and specifications; graphics/tables; statistical compilations; films and slides.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEIRS</td>
<td>The Environmental Information Retrieval System</td>
<td>1944 - present</td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Retrospective searches; selective dissemination of information; analytical studies; referrals; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: Interlibrary loans; courses/workshops.

USER QUALIFICATIONS: General technology community; Government employees; Government contractors.

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
US ARMY RESEARCH OFFICE (ARO)

ADDRESS: Information Processing Office
Box CM, Duke Station
Durham, NC
27706

TELEPHONE: (919) 286-2285

DIRECTOR: Ulsh, R. O.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Defense (Department of the Army)

MISSION: To coordinate and support basic research in mathematics and the physical, engineering, life, and environmental sciences.

SUBJECT SCOPE: Chemistry, engineering, environmental sciences, mathematics, metallurgy and ceramics, and physics.

MAJOR SUBJECT TERMS: Basic research; Bibliographies; Clearinghouse; Data and information; Evaluation; Information resources; Investigators; Materials research; Operations research; Research; Research and development; Scientific data.

RESEARCH AND DEVELOPMENT ACTIVITIES: Monitors research and development under contracts for certain governmental agencies.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ulsh, R. O.</td>
<td>Technical information</td>
<td>(919) 286-2285</td>
</tr>
</tbody>
</table>

INTERNAL PUBLICATIONS: Handbooks/manuals; technical reports.

HOLDINGS: Books; reports and reprints; reference lists/bibliographies.

REFERENCE AND QUERY SERVICES: Questions answered individually; analytical studies; advisory and consulting services; referrals.

OTHER SERVICES: Reproduction/publication services.

USER QUALIFICATIONS: General technology community.

USER RESTRICTIONS: None (unclassified material).

PRICING AND SERVICE CHARGES: All services free to qualified users.

May 1973
WESTERN RESEARCH APPLICATION CENTER (WESRAC)

ADDRESS: 809 West 34th Street
Los Angeles, CA
90007

TELEPHONE: (213) 746-6132; TWX (910) 321-2981

DIRECTOR: Oulie, A. K.

PARENT-SPOONOR-HOST AFFILIATION: University of Southern California (Graduate School of Business Administration)

YEAR INFORMATION SOURCE BEGAN: 1967

MISSION: To disseminate technology from sources around the world to the business and industrial community in the West.

SUBJECT SCOPE: Air and water purification, biosciences and biotechnology, chemistry, communications, computers and techniques, corrosion, electronics, fuel cells and batteries, geophysics, human engineering, hydraulic and pneumatic systems, instrumentation and photography, machine elements and processes, management, materials, mathematics, meteorology, and navigation, physics, propellants and propulsion systems, solid state devices, thermodynamics and combustion structures.

MAJOR SUBJECT TERMS: Atmospheric sciences; Behavioral sciences; Biological sciences; Chemistry; Civil engineering; Earth sciences; Electrical/electronics engineering; Mathematical sciences; Oceanography; Physical sciences; Physics; Space sciences.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext.(x)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oulie, A. K.</td>
<td>Technical information</td>
<td>(213)746-6132</td>
</tr>
<tr>
<td>Ashbury, H. O.</td>
<td>Space sciences</td>
<td>(213)746-6123</td>
</tr>
<tr>
<td>Loran, B.</td>
<td>Chemistry</td>
<td>(213)746-6123</td>
</tr>
<tr>
<td>Mixer, R.</td>
<td>Chemistry</td>
<td>(213)746-6123</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 8, nonprofessional 8, total 16; part-time - professional 10, nonprofessional 8, total 18.

INTERNAL PUBLICATIONS: Indexes; technical reports; newsletters/trade literature; conference papers; reference lists/bibliographies; magnetic tape bibliographic data.

HOLDINGS: Abstracts/indexes: 2,000,000; reports and reprints: 250,000; periodicals: 50; reference lists/bibliographies: 6,200; films and slides: 250,000. Total number of titles: 2,506,250; range of years of total: 1879 to present.

DATA BANK RESOURCES:

<table>
<thead>
<tr>
<th>Name or Acronym</th>
<th>Description of Contents</th>
<th>Range of Years</th>
<th>No. of Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERIC</td>
<td>Education information</td>
<td>1964 - present</td>
<td></td>
</tr>
<tr>
<td>CA</td>
<td>Chemical information</td>
<td>1907 - present</td>
<td></td>
</tr>
<tr>
<td>APA</td>
<td>Air Pollution Abstracts</td>
<td>1970 - present</td>
<td></td>
</tr>
<tr>
<td>NASA</td>
<td>Aerospace technology</td>
<td>1962 - present</td>
<td></td>
</tr>
<tr>
<td>DoD</td>
<td>Defense technology</td>
<td>1964 - present</td>
<td></td>
</tr>
<tr>
<td>GRA</td>
<td>Government research reports</td>
<td>1968 - present</td>
<td></td>
</tr>
<tr>
<td>EI</td>
<td>Engineering technology</td>
<td>1884 - present</td>
<td></td>
</tr>
<tr>
<td>IM</td>
<td>Index Medicus medical sciences</td>
<td>1879 - present</td>
<td></td>
</tr>
</tbody>
</table>

REFERENCE AND QUERY SERVICES: Questions answered individually; retrospective searches; selective dissemination of information; prior art/patent searches; state-of-the-art reviews; advisory and consulting services; bibliographic abstracts; custom abstracting and indexing services.

OTHER SERVICES: On-site use of collection; courses/workshops; conferences/symposia.
WESTERN RESEARCH APPLICATION CENTER (WESRAC)

USER QUALIFICATIONS: General technology community.
USER RESTRICTIONS: None (unclassified material).
PRICING AND SERVICE CHARGES: Charge to all users for all services.

May 1973
X-RAY ATTENUATION COEFFICIENT INFORMATION CENTER

ADDRESS: National Bureau of Standards
Center for Radiation Research
Washington, DC 20234

TELEPHONE: (301) 921-2685

DIRECTOR: Hubbell, J. H.

PARENT-SPONSOR-HOST AFFILIATION: US Department of Commerce (National Bureau of Standards)

YEAR INFORMATION SOURCE BEGAN: 1952

MISSION: To provide x-ray attenuation data for: radiation shielding design (reactor, space vehicle, medical); analysis of nuclear physics experiments and of medical x-ray effects; thickness and density gauges; irradiation technology, electron microprobe analysis (metallurgy); and ionosphere prediction (radio propagation).

SUBJECT SCOPE: Attenuation coefficients of high energy photon (x-ray, gamma-ray) interaction with matter, including Compton and Rayleigh scattering, atomic photo-effect, and electron-positron pair production.

MAJOR SUBJECT TERMS: Clothing; Crew considerations; Galactic radiation; Personal protective equipment; Protective clothing; Radiation belts; Radiation detection; Radiation protection; Radioactive decontamination; Reactors; X-ray technology.

STAFF SUBJECT SPECIALISTS:

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject Specialty</th>
<th>Tel. No. and Ext. (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hubbell, J. H.</td>
<td>X-ray technology</td>
<td>(301) 921-2685</td>
</tr>
</tbody>
</table>

STAFF: Full-time - professional 1, nonprofessional 1, total 2; part-time - professional 4, nonprofessional 0, total 4.

INTERNAL PUBLICATIONS: Abstracts; technical reports; statistical compilations; reference lists/bibliographies.

HOLDINGS: Abstracts/indexes; reports and reprints; reference lists/bibliographies; statistical compilations.

REFERENCE AND QUERY SERVICES: Questions answered individually; state-of-the-art reviews; analytical studies; bibliographic abstracts; scientific of statistical data retrieval/compilation.

USER QUALIFICATIONS: General technology community.

May 1973
INDEXES

I. EXPERTS LISTED BY SPECIALTY

II. ALPHABETICAL LIST OF EXPERTS

III. INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE
EXPERTS LISTED BY SPECIALTY

Aviation safety (cont'd)

Butterfield, A. P.
Federal Aviation Administration 76
Miller, C. O.
Bureau of Aviation Safety 38

Ballistics

Eichelberger, R.
Army Ballistic Research Laboratories 31

Batteries

Johnson, D. M.
Battery Information Index and Energy Storage Information Center 36

Biological sciences

Chamberlain, J. E.
Defence and Civil Institute of Environmental Medicine 59
Kollegger, J. G.
Environment Information Center, Inc. 70
McFarland, R. A.
Guggenheim Center for Aerospace Health and Safety 85
Parkins, P. V.
Biosciences Information Service 37
Pepper, S. J.
Environmental Information Division 72
Schwaner, T. D.
Environmental Information Division 72
Varon, M. I.
Armed Forces Radiobiology Research Institute 30

Chemical engineering

Hoffman, H. I.
Southwest Research Institute 164
Linden, H. B.
Institute of Gas Technology 93
Whitaker, H. B.
Underwriters’ Laboratories, Inc. 176

Chemical hazards

Pope, G. H.
Underwriters’ Laboratories, Inc. 176

Chemical propulsion

Nichols, P. L.
Chemical Propulsion Information Agency 43

Chemistry

Buhl, J. M.
Tim Research Institute, Inc. 173
Driver, W. J.
Manufacturing Chemists Association, Inc. 101
Hallstrom, S. G.
Institute of Textile Technology 95
Knight, J.
Air Pollution Technical Information Center 11
Larson, B.
Computer Search Center 51
Loran, B.
Western Research Application Center 179
EXPERTS LISTED BY SPECIALTY

Chemistry (cont'd)
Mixer, R.
Western Research Application Center 179
Schultz, C. W.
Bureau of Explosives 39
Straka, L. E.
Goodyear Technical Information Center 83

Chlorine technology
Mitchell, R. L.
Chlorine Institute 45

Civil engineering
Zwoyer, E.
American Society of Civil Engineers 24

Combustion
Barnes, M. G.
Combustion Institute 48

Communications
Richardson, J. M.
Office of Telecommunications 140

Compressed gases
Gumz, D. M.
National LP-Gas Association 121
Johnson, W. H.
National LP-Gas Association 121
Lenhard, R. E.
Compressed Gas Association 50

Computer sciences
Edwards, J. S.
Georgia Information Dissemination Center 80
Krebs, J. L.
Air Force Machinability Data Center 10
Maskevitz, B. F.
Radiation Shielding Information Center 147
Masters, R. L.
Aerospace and Environmental Medicine Information System 4
Rogers, S.
Society for Computer Simulation 161

Copper technology
Black, W. T.
Copper Data Center 54

Corrosion
Hull, H. T.
National Association of Corrosion Engineers 112

Cryogenic fluids
Ordin, P. M.
Aerospace Safety Research and Data Institute 7

Cryogenic safety
Olien, N. A.
Cryogenic Data Center 55
Zabetakis, M. G.
Pittsburgh Mining and Safety Research Center 143

Crystals
Ondik, H.
Crystal Data Center 57

Dangerous materials
Walls, W. L.
National Fire Protection Association 116

Documentation
Ackenhausen, A. E.
Air Force Machinability Data Center 10
Miller, B. H.
Global Engineering Documentation Service, Inc. 82
Perkins, K.
Air Force Machinability Data Center 10

Education and training
Bukacek, R. F.
Institute of Gas Technology 93

Electrical/electronics engineering
Bull, W. I.
Electronic Industries Association 67
Goodman, D. M.
Project SETE 145
Peirson, J. J.
Power Information Center 144

Electrolysis
Muttall, R. L.
Electrolyte Data Center 65
Staples, B. R.
Electrolyte Data Center 65

Electromagnetic radiation
Anson, W. J.
Electromagnetic Metrology Information Center 66
Fuller, E. G.
Photonuclear Data Center 142
Gerstenberg, H.
Photonuclear Data Center 142

Electromagnetism
Vette, J. I.
National Space Science Data Center 124

Electronic networks/circuits
Fuqua, N. B.
Reliability Analysis Center 152

Energy conversion
Johnson, D. M.
Battery Information Index and Energy Storage Information Center 36

Engineering
Cabeen, S. K.
Engineering Societies Library 69
Davis, E. N.
Underwriters' Laboratories, Inc. 176
Mollingsworth, G. L.
Naval Air Development Center 128
Long, W. H.
Technology Application Center 169
Rosenberg, R. B.
Institute of Gas Technology 93
**EXPERTS LISTED BY SPECIALTY**

### Engineering (cont'd)
Slattery, W. J.  
Standards Information Services 166
Stewart, A.  
Computer Search Center 51

### Environmental sciences
Caskey, J. E.  
Environmental Science Information Center 73
Davidson, R. S.  
Environmental Information Analysis Center 71
Ficor, J. W.  
National Center for Atmospheric Research 113
Haagard, W. H.  
National Climatic Center 114
Halpin, B.  
Air Pollution Technical Information Center 11
Leroy, G. Jr.  
US Army Environmental Hygiene Agency 177
Peterson, B. L.  
Institute of Environmental Sciences 92

### Explosives
Fitzpatrick, J. G.  
Safety of Explosive Ordnance Databank 155
Hanzel, F. J.  
Safety of Explosive Ordnance Databank 155

### Fasteners
Lieblich, J. H.  
Global Engineering Documentation Service, Inc. 82

### Fire
Grisazore, N. T.  
Committee on Fire Research 49
Miller, R. J.  
Factory Mutual Research Corporation 75

### Fire and explosion
Hacker, P. T.  
Aerospace Safety Research and Data Institute 7

### Fire, explosion, and detonations
Van Dolah, R. W.  
Pittsburgh Mining and Safety Research Center 143

### Fire fighting
Grisez, M. E.  
National Fire Protection Association 116

### Fire hazard evaluation
Peterson, C. E.  
National Fire Protection Association 116

### Fire protection
Bono, J. A.  
Underwriters' Laboratories, Inc. 176

### Fire protection (cont'd)
Morgan, C. P.  
National Fire Protection Association 116

### Fire safety
Hicks, L. B.  
Federal Fire Council 77
Tryon, G. H.  
National Fire Protection Association 116

### Heating
Mazzoni, S.  
Underwriters' Laboratories, Inc. 176

### Helium
McCarty, B. D.  
Cryogenic Data Center 55

### Highway safety
Hess, R. L.  
Highway Safety Research Institute 88
Kaye, R. A.  
Bureau of Motor Carrier Safety 40
Mobley, A. B.  
Highway Research Information Service 87

### Hydraulic engineering
Pearce, T.  
National Fluid Power Association 118

### Hydrogen
McCarty, R. D.  
Cryogenic Data Center 55

### Illumination
Coda, F.  
Illuminating Engineering Society 89

### Industrial hygiene
McComick, W. E.  
American Industrial Hygiene Association 14

### Industrial safety
Simonton, B.  
Global Engineering Documentation Service, Inc. 82

### Industrial safety and health
Craft, B. F.  
National Institute for Occupational Safety and Health 119
Finkel, A. J.  
American Medical Association 17
Kelley, W. D.  
American Conference of Governmental Industrial Hygienists 13
Sharkey, S.  
Occupational Safety and Health Administration 137

### Information and data
Garrison, R. C.  
Air Force Machinability Data Center 10
EXPERTS LISTED BY SPECIALTY

Information systems
Burch, E.
Technology Application Center 169

Inspection
Garland, C. A.
Bureau of Explosives 39

Instrumentation
Hagen, E. W.
Nuclear Safety Information Center 135
Yager, E.
Instrument Society of America 96

Lead
Smith, J. F.
Lead Industries Association, Inc. 97

Lexicography
Panek, R. L.
Rockwell Technical Information Processing System 154
Sindel, J. K.
Rockwell Technical Information Processing System 154

Life sciences
Masters, R. L.
Aerospace and Environmental Medicine Information System 4
Smith, H. M.
Environmental Information Division 72

Life support
Courtney, W. G.
Pittsburgh Mining and Safety Research Center 143

Liquified gases
Gumz, D. M.
National LP-Gas Association 121

Lubricants
Asmlung, H. L.
Coating and Chemical Laboratory 47
West, C. H.
American Society of Lubrication Engineers 25

Machinery
Montell, E. S.
Society of the Plastics Industry, Inc. 163

Machining
Smith, R. E.
Air Force Machinability Data Center 10

Maintenance
Derstler, E. J.
Navy Maintenance and Material Management System 130
Peiffer, W. E.
Navy Maintenance and Material Management System 130

Man-machine hazards
Neyer, W. E.
Pennsylvania Transportation and Traffic Safety Center 141
Murphy, J. M.
Pittsburgh Mining and Safety Research Center 143

Management sciences
Boile, W. V.
Institute of Gas Technology 93
Rosenthal, L. J.
Executive Sciences Institute, Inc. 74

Material processes engineering
Schora, F. C.
Institute of Gas Technology 93

Materials
Asmlung, H. L.
Coating and Chemical Laboratory 47
Arntz, V.
Mechanical Properties Data Center 103
Connelly, T. R.
Research Materials Information Center 153

Mechanical engineering
Akstens, F. W.
Industrial Fasteners Institute 90
Brommer, J. E.
Navy Maintenance and Material Management System 130
Finch, R. B.
American Society of Mechanical Engineers 26
Gilbert, J.
Society of Automotive Engineers, Inc. 162
Robinson, G. C.
Nuclear Safety Information Center 135

Mechanics of structural failure
Meyer, W. E.
Pennsylvania Transportation and Traffic Safety Center 141

Medical sciences
Cummings, M. M.
National Library of Medicine 120
McMeekin, R. E.
Armed Forces Institute of Pathology, Aerospace Branch 29
EXPERTS LISTED BY SPECIALTY

Metal powders
Johnson, P. K.
Metal Powder Industries Federation 104

Metallurgical processes
Moore, T. D.
Mechanical Properties Data Center 103

Metallurgy
Belfour, A. J.
Mechanical Properties Data Center 103
Carter, G. C.
Alloy Data Center 12
Chafe, W. D.
Metals Information Service 106
Fenton, E. A.
American Welding Society 28
Gschneidner, K. A.
Rare-Earth Information Center 149
Hampshire, W. B.
Tin Research Institute, Inc. 173
Hoare, W. E.
Tin Research Institute, Inc. 173
Long, J. B.
Tin Research Institute, Inc. 173
Moran, H. D.
Metals and Ceramics Information Center 105
Simonelli, F. J.
Steel Founders' Society of America 167
Smith, J. P.
Lead Industries Association, Inc. 97

Metals
Bennett, L. H.
Alloy Data Center 12
Butrymowicz, D. B.
Diffusion in Metals Data Center 63
Manning, J. B.
Diffusion in Metals Data Center 63
Read, M. E.
Diffusion in Metals Data Center 63

Meteorology
Swisher, S. D.
Nuclear Safety Information Center 135

Microcircuits
Mirth, L. A.
Reliability Analysis Center 152

Mining
Goode, C. A.
Pittsburgh Mining and Safety Research Center 143
Palowitch, E. R.
Pittsburgh Mining and Safety Research Center 143

Missiles
Love, J.
Space and Missile Test Center 165

Molecular structure
Krupennie, P. H.
Diatomic Molecule Spectra and Energy Levels Data Center 62

Nondestructive testing
Meister, R. P.
Nondestructive Testing Information Center 133
Merhib, C. P.
Nondestructive Testing Information Analysis Center 132
Searles, C. E.
American Society for Nondestructive Testing 23

Nuclear engineering
Roussin, R. W.
Radiation Shielding Information Center 147
Scott, R. L.
Nuclear Safety Information Center 135

Nuclear physics
Mankowitz, B. F.
Radiation Shielding Information Center 147
Zobel, W.
Radiation Shielding Information Center 147

Nuclear power
Brown, R.
American Nuclear Society 19
DuTemple, O. J.
American Nuclear Society 19
Harris, R.
American Nuclear Society 19
Johnson, W.
American Nuclear Society 19
Payne, J.
American Nuclear Society 19
Quinn, R.
American Nuclear Society 19

Nuclear radiation
Houser, B. L.
Nuclear Safety Information Center 135

Nuclear safety
Buchanan, J. B.
Nuclear Safety Information Center 135
Chan, W. W.
DoD Nuclear Information and Analysis Center 61
Cottrell, W. B.
Nuclear Safety Information Center 135

Numerical control
White, W. H.
Numerical Control Society 136

Oceanography
Glasgow, J. S.
Diver Equipment Information Center 64

Operations research
Krauskopp, W. B.
Bureau of Explosives 39
EXPERTS LISTED BY SPECIALTY

Oxygen
Roder, H. M.
Cryogenic Data Center 55
Schmidt, H. W.
Aerospace Safety Research and Data Institute 7

Petroleum
Brenner, E. H.
American Petroleum Institute 21
McKenna, J. F.
American Petroleum Institute 20
McLeod, H. O.
Information Services Department 91

Physical chemistry
Hagan, L.
Atomic Energy Levels Data Center 34
Keilholtz, G. W.
Nuclear Safety Information Center 135

Physical sciences
Arthur, G.
Air Force Flight Dynamics Laboratory 9
Einsel, D. W.
Harry Diamond Laboratories 86
Kimball, C.
Midwest Research Institute 108
Lida, D. R.
Office of Standard Reference Data 138
Richardson, J. M.
Office of Telecommunications 140
Scolatti, C. A.
Air Force Flight Dynamics Laboratory 9

Physics
Carter, G. C.
Alloy Data Center 12
Koch, H. W.
American Institute of Physics 15
Spates, J. E.
Harry Diamond Laboratories 86
Stosat, H. L.
Midwest Research Institute 108
Van Thiel, M.
Shock Wave Data Center 159

Plastics
Babcock, C. I.
National Fire Protection Association 116
Bonhaus, D.
Society of the Plastics Industry, Inc. 163

Powder metallurgy
Roll, K. M.
Metal Powder Industries Federation 104

Propellants
Belles, F. E.
Aerospace Safety Research and Data Institute 7

Propellants and fuels
Woodworth, N. E.
National Fire Protection Association 116

Psychology
Pepper, S. J.
Environmental Information Division 72
Preston, K. O.
American Psychological Association 22

Radiation
Ney, W. E.
National Council on Radiation Protection and Measurements 115

Radiation chemistry
Ross, A. B.
Radiation Chemistry Data Center 146
Villeforth, J. C.
Bureau of Radiological Health 41

Radiation shielding
Trubey, D. K.
Radiation Shielding Information Center 147

Radio communication systems
Potter, R. E.
Radio Technical Commission for Aeronautics 148

Recovery operations
Rich, C. E.
Naval Aerospace Recovery Facility 127
Shaw, P. A.
Naval Aerospace Recovery Facility 127

Reinforced plastics
Condit, C. L.
Society of the Plastics Industry, Inc. 163

Reliability analysis
Lauffenburger, H. A.
Reliability Analysis Center 152
Richards, E. T.
Government-Industry Data Exchange Program 84

Safety
Bensmiller, A. C.
Transportation Safety Institute 175
Carroll, J. P.
Society of the Plastics Industry, Inc. 163
Creson, R. F.
Transportation Safety Institute 175
Fitzpatrick, J. P.
Transportation Safety Institute 175
Largess, D. L.
Transportation Safety Institute 175
Pyle, R.
National Safety Council 123
Thomas, J. C.
Transportation Safety Institute 175

Safety analysis
Kaye, R. A.
Bureau of Motor Carrier Safety 40
EXPERTS LISTED BY SPECIALTY

Safety analysis (cont'd)
Larson, T. D.
Pennsylvania Transportation and Traffic Safety Center 141
Olsen, R. A.
Pennsylvania Transportation and Traffic Safety Center 141

Safety codes/standards/specifications
Van Dolah, R. W.
Pittsburgh Mining and Safety Research Center 143

Safety engineering
Bonner, B. G.
American Society of Safety Engineers 27
Reed, J. H.
National Transportation Safety Board 126

Search and rescue
Heath, G. W.
Safety Office, Chief of Engineers 156

Security
Saunders, G. W.
Underwriters' Laboratories, Inc. 176

Shock and vibration
Belshem, R. O.
Shock and Vibration Information Center 158

Solid state physics
Bennett, L. H.
Alloy Data Center 12
Kahan, D. J.
Alloy Data Center 12
Lovas, F. J.
Microwave Spectral Data Center 107

Space sciences
Asbury, H. O.
Western Research Application Center 179
Dick, P.
General Electric Space Division 79

Specific heat
Furukawa, G. T.
Low-Temperature Specific Heats Data Center 99

Standard reference
Cali, J. P.
Office of Standard Reference Materials 139

Standards
Chusaas, S. J.
Standards Information Services 166
Monteil, E. S.
Society of the Plastics Industry, Inc. 163
Slattery, W. J.
Standards Information Services 166
Trowbridge, R. P.
American National Standards Institute 19

Statistics
Shinnick, W. A.
Technology Application Center 169

Steel construction
Edmonds, J. K.
American Institute of Steel Construction, Inc. 16

Structural engineering
Stevens, R. E.
National Fire Protection Association 116

Technical information
Bergman, J.
Management Information Systems Directorate, STINFO Branch 100
Blair, K. G.
Convair Aerospace Division, Research Library 53
Chenery, P. J.
North Carolina Science and Technology Research Center 134
Crep, J. E.
Engineering Index, Inc. 68
Dorsey, W. S.
Rockwell Technical Information Processing System 154
Dropea, F. G.
NASA Scientific and Technical Information Office 110
Evans, G. R.
Lockheed Technical Information Center 98
Feinstein, P. S.
NASA Scientific and Technical Information Office 110
Hersey, D. F.
Smithsonian Science Information Exchange 160
Jordan, J. S.
Highway Research Information Service 87
Kniebes, D. V.
Institute of Gas Technology 93
Knox, W. T.
National Technical Information Service 125
Kobl, J. S.
Redstone Scientific Information Center 150
Llewellen, P.
Computer Search Center 51
Mandel, G.
Aerospace Safety Research and Data Institute 7
March, J. P.
Aerospace Materials Information Center 5
McFarland, M. W.
National Referral Center 122
McKenna, P. J.
Aerospace Safety Research and Data Institute 7
Morris, J. W.
AEC Technical Information Center 3
Oser, J.
National Institute for Occupational Safety and Health 119
Oulie, A. K.
Western Research Application Center 179
Paddock, E.
Regional Information and Communication 191
EXPERTS LISTED BY SPECIALTY

Technical information (cont'd)
Paddock, R. (cont'd)

Peters, A.
Science Information Services 157
Price, J.
National Referral Center 122
Pryor, R. E.
NASA Scientific and Technical Information Office 110
Rowsome, F. H.
NASA Scientific and Technical Information Office 110
Schipma, P. B.
Computer Search Center 51
Shannon, R. L.
AEC Technical Information Center 3
Shriner, R. D.
Aerospace Research Applications Center 6
Stegmaier, R. B.
Defense Documentation Center 60
Sweeney, U. J.
Convair Aerospace Division, Research Library 53
Trew, J. R.
National Referral Center 122
Ulsh, R. O.
US Army Research Office 178
Vlannes, P. W.
NASA Scientific and Technical Information Office 110
Wente, W. A.
NASA Scientific and Technical Information Office 110
Wilde, D. U
New England Research Application Center 131

Thermodynamic properties
Evans, W. H.
Chemical Thermodynamics Data Center 44
Waqman, D.
Chemical Thermodynamics Data Center 44

Thermodynamics
Touloukian, Y. S.
Thermophysical Properties Information Analysis Center 172
Zwolinski, B. J.
Thermodynamics Research Center 171

Thermophysical properties
Shafer, W. H.
Thermophysical Properties Information Analysis Center 172

Toxicology
Kissman, H. M.
Toxicology Information Program 174
Stokinger, H. E.
American Conference of Governmental Industrial Hygienists 13

Transport properties
Hanley, H. J. M.
Cryogenic Data Center 55

Transportation
Mobley, A. B.
Highway Research Information Service 87

Transportation engineering
Hess, R. L.
Highway Safety Research Institute 88

X-ray technology
Hubbell, J. H.
X-Ray Attenuation Coefficient Information Center 181
ALPHABETICAL LIST OF EXPERTS

A

Ackenhaussen, A. E.
Air Force Machinability Data Center 10

Akstens, F. W.
Industrial Fasteners Institute 90

Allen, W. H.
Transportation Safety Institute 175

Amlung, H. L.
Coating and Chemical Laboratory 47

Anson, W. J.
Electromagnetic Metrology Information Center 66

Arthur, G.
Air Force Flight Dynamics Laboratory 9

Ashbury, H. O.
Western Research Application Center 179

Attwood, V.
Mechanical Properties Data Center 103

B

Babcock, C. I.
National Fire Protection Association 116

Barnes, H. G.
Combustion Institute 48

Barnett, C. F.
Controlled Fusion Atomic Data Center 52

Belfour, A. J.
Mechanical Properties Data Center 103

Belles, F. E.
Aerospace Safety Research and Data Institute 7

Belsheim, R. O.
Shock and Vibration Information Center 158

Bennett, L. H.
Alloy Data Center 12

Bensmiller, A. C.
Transportation Safety Institute 175

Bergman, J.
Management Information Systems Directorate, STINFO Branch 100

Bihl, J. K.
Tin Research Institute, Inc. 173

Black, W. T.
Copper Data Center 54

Blair, K. G.
Convair Aerospace Division, Research Library 53

Bodle, W. W.
Institute of Gas Technology 93

Bonhaus, D.
Society of the Plastics Industry, Inc. 163

Bonner, B. G.
American Society of Safety Engineers 27

Bono, J. A.
Underwriters' Laboratories, Inc. 176

Brenner, E. H.
American Petroleum Institute 21

Brommer, J. E.
Navy Maintenance and Material Management System 130

Brown, R.
American Nuclear Society 19

Buchanan, J. R.
Nuclear Safety Information Center 135

Bukacek, R. F.
Institute of Gas Technology 93

Bull, W. I.
Electronic Industries Association 67

Burch, E.
Technology Application Center 169

Butrymowicz, D. B.
Diffusion in Metals Data Center 63

Butterfield, A. P.
Federal Aviation Administration 76

C

Cabeen, S. K.
Engineering Societies Library 69

Cali, J. P.
Office of Standard Reference Materials 139

Carroll, J. P.
Society of the Plastics Industry, Inc. 163

Carter, G. C.
Alloy Data Center 12

Caskey, J. E.
Environmental Science Information Center 73

Chafe, R. D.
Metals Information Service 106

Chamberlain, J. E.
Defence and Civil Institute of Environmental Medicine 59

Chan, W. W.
DoD Nuclear Information and Analysis Center 61
ALPHABETICAL LIST OF EXPERTS

Chenery, P. J.
North Carolina Science and Technology Research Center 134

Chumas, S. J.
Standards Information Services 166

Coda, F.
Illuminating Engineering Society 89

Condit, C. L.
Society of the Plastics Industry, Inc. 163

Connolly, T. F.
Research Materials Information Center 153

Cottrell, W. B.
Nuclear Safety Information Center 135

Courtney, W. G.
Pittsburgh Mining and Safety Research Center 143

Craft, B. F.
National Institute for Occupational Safety and Health 119

Creson, R. F.
Transportation Safety Institute 175

Cummings, M. M.
National Library of Medicine 120

Davidson, R. S.
Environmental Information Analysis Center 71

Davis, E. N.
Underwriters' Laboratories, Inc. 176

Derstler, E. J.
Navy Maintenance and Material Management System 130

Dick, P.
General Electric Space Division 79

Dille, J. R.
Civil Aeromedical Institute 46

Dorsey, W. S.
Rockwell Technical Information Processing System 154

Driver, W. J.
Manufacturing Chemists Association, Inc. 101

Dropka, F. G.
NASA Scientific and Technical Information Office 110

DuTemple, O. J.
American Nuclear Society 19

Edmonds, J. K.
American Institute of Steel Construction, Inc. 16

Edwards, J. S.
Georgia Information Dissemination Center 80

Eichelberger, R.
Army Ballistic Research Laboratories 31

Einsel, D. W.
Harry Diamond Laboratories 86

Electromagnetic radiation
Gerstenberg, H.
Photonuclear Data Center 142

Evans, G. R.
Lockheed Technical Information Center 98

Evans, W. H.
Chemical Thermodynamics Data Center 44

Feinstein, P. S.
NASA Scientific and Technical Information Office 110

Fenton, E. A.
American Welding Society 28

Finch, R. B.
American Society of Mechanical Engineers 26

Finkel, A. J.
American Medical Association 17

Fiori, J. W.
National Center for Atmospheric Research 113

Fitzpatrick, J. F.
Transportation Safety Institute 175

Fitzpatrick, J. G.
Safety of Explosive Ordnance Databank 155

Fuller, E. G.
Photonuclear Data Center 142

Fugua, N. B.
Reliability Analysis Center 152

Fuhr, J. R.
Atomic Transition Probabilities Data Center 35
Data Center on Atomic Line Shapes and Shifts 58

Furukawa, G. T.
Low-Temperature Specific Heats Data Center 99
ALPHABETICAL LIST OF EXPERTS

G

Garland, C. A.
Bureau of Explosives 39

Garrison, R. C.
Air Force Machinability Data Center 10

Gilbert, J.
Society of Automotive Engineers, Inc. 162

Glasgow, J. S.
Diver Equipment Information Center 64

Goode, C. A.
Pittsburgh Mining and Safety Research Center 143

Goodman, D. M.
Project SETE 145

Grimes, M. E.
National Fire Protection Association 116

Grisamore, M. T.
Committee on Fire Research 49

Gschneidner, K. A.
Rare-Earth Information Center 149

Guinn, D. M.
National LP-Gas Association 121

H

Hacker, P. T.
Aerospace Safety Research and Data Institute 7

Hagan, L.
Atomic Energy Levels Data Center 34

Hagen, E. W.
Nuclear Safety Information Center 135

Haggard, W. H.
National Climatic Center 114

Hallstrom, S. G.
Institute of Textile Technology 95

Halpin, B.
Air Pollution Technical Information Center 11

Hampshire, W. B.
Tin Research Institute, Inc. 173

Hanley, H. J. M.
Cryogenic Data Center 55

Hanzel, F. J.
Safety of Explosive Ordnance Databank 155

Harris, R.
American Nuclear Society 19

Heath, G. W.
Safety Office, Chief of Engineers 156

Hersey, D. F.
Smithsonian Science Information Exchange 160

Hess, R. L.
Highway Safety Research Institute 88

Hicks, L. B.
Federal Fire Council 77

Hoare, W. E.
Tin Research Institute, Inc. 173

Hoffman, H. I.
Southwest Research Institute 164

Hollingsworth, G. L.
Naval Air Development Center 128

Houser, B. L.
Nuclear Safety Information Center 135

Hubbell, J. H.
X-Ray Attenuation Coefficient Information Center 181

Hull, H. T.
National Association of Corrosion Engineers 112

J

Johnson, D. M.
Battery Information Index and Energy Storage Information Center 36

Johnson, N.
American Nuclear Society 19

Johnson, P. K.
Metal Powder Industries Federation 104

Johnson, W. H.
National LP-Gas Association 121

Jordan, J. S.
Highway Research Information Service 87

K

Kahan, D. J.
Alloy Data Center 12

Kahles, J. P.
Air Force Machinability Data Center 10

Kaye, R. A.
Bureau of Motor Carrier Safety 40

Keilholtz, G. W.
Nuclear Safety Information Center 135

Kelley, W. D.
American Conference of Governmental Industrial Hygienists 13

Kimball, C.
Midwest Research Institute 108
ALPHABETICAL LIST OF EXPERTS

Kissman, H. M.
Toxicology Information Program 174

Kniebes, D. V.
Institute of Gas Technology 93

Knight, J.
Air Pollution Technical Information Center 11

Knox, W. T.
National Technical Information Service 125

Kohler, J. S.
Redstone Scientific Information Center 150

Koch, H. W.
American Institute of Physics 15

Kolleqqer, J. G.
Environment Information Center, Inc. 70

Krauskopp, W. B.
Bureau of Explosives 39

Krebs, J. L.
Air Force Machinability Data Center 10

Krupennie, P. H.
Diatomic Molecule Spectra and Energy Levels Data Center 62

L

Largess, D. L.
Transportation Safety Institute 175

Larson, R.
Computer Search Center 51

Larson, T. D.
Pennsylvania Transportation and Traffic Safety Center 141

Lauffenburger, H. A.
Reliability Analysis Center 152

Lederer, J.
Flight Safety Foundation 78

Lenhard, R. E.
Compressed Gas Association 50

Leroy, G. Jr
US Army Environmental Hygiene Agency 177

Lide, D. R.
Office of Standard Reference Data 138

Lieblich, J. H.
Global Engineering Documentation Service, Inc. 82

Linden, H. R.
Institute of Gas Technology 93

Llewollen, P.
Computer Search Center 51

Long, J. B.
Tim Research Institute, Inc. 173

Long, W. W.
Technology Application Center 169

Loran, B.
Western Research Application Center 179

Lovas, F. J.
Microwave Spectral Data Center 107

Love, J.
Space and Missile Test Center 165

M

Mandel, G.
Aerospace Safety Research and Data Institute 7

Manning, J. R.
Diffusion in Metals Data Center 63

March, J. F.
Aerospace Materials Information Center 5

Martin, G. A.
Atomic Transition Probabilities Data Center 35

Mazzoni, S.
Underwriters' Laboratories, Inc. 176

McCarty, R. D.
Cryogenic Data Center 55

McFarland, R. A.
Cryogenic Data Center 55

McCorquodale, W. E.
American Industrial Hygiene Association 14

McFarland, M. W.
National Referral Center 122

McFarland, R. A.
Guggenheim Center for Aerospace Health and Safety 85

McKenna, J. F.
American Petroleum Institute 20
ALPHABETICAL LIST OF EXPERTS

McKenna, P. J.
Aerospace Safety Research and Data Institute 7

McLeod, H. O.
Information Services Department 91

McMeekin, R. R.
Armed Forces Institute of Pathology, Aerospace Branch 29

Meister, R. P.
Nondestructive Testing Information Center 133

Merhib, C. P.
Nondestructive Testing Information Analysis Center 132

Meyer, W. E.
Pennsylvania Transportation and Traffic Safety Center 141

Miller, B. H.
Global Engineering Documentation Service, Inc. 82

Miller, C. O.
Bureau of Aviation Safety 38

Miller, M. J.
Factory Mutual Research Corporation 75

Mirth, L. A.
Reliability Analysis Center 152

Mitchell, R. L.
Chlorine Institute 45

Mixer, R.
Western Research Application Center 179

Mobley, A. B.
Highway Research Information Service 87

Montell, E. S.
Society of the Plastics Industry, Inc. 163

Moore, T. D.
Mechanical Properties Data Center 103

Moran, H. D.
Metals and Ceramics Information Center 105

Morgan, C. P.
National Fire Protection Association 116

Murphy, J. N.
Pittsburgh Mining and Safety Research Center 143

N

Nelles, E. V.
National Aircraft Accident Investigation School 111

Ney, W. B.
National Council on Radiation Protection

Ney, W. R. (cont'd)
and Measurements 115

Nichols, P. L.
Chemical Propulsion Information Agency 43

Norris, J. W.
AEC Technical Information Center 3

Nuttall, R. L.
Electrolyte Data Center 65

O

Olien, N. A.
Cryogenic Data Center 55

Olson, R. A.
Pennsylvania Transportation and Traffic Safety Center 141

Ordin, P. M.
Aerospace Safety Research and Data Institute 7

Oser, J.
National Institute for Occupational Safety and Health 119

Oulie, A. K.
Western Research Application Center 179

P

Paddock, R.
Regional Information and Communication Exchange 151

Palowitch, E. B.
Pittsburgh Mining and Safety Research Center 143

Panek, R. L.
Rockwell Technical Information Processing System 154

Parkins, P. V.
Biosciences Information Service 37

Payne, J.
American Nuclear Society 19

Pearce, T.
National Fluid Power Association 118

Peiffer, W. E.
Navy Maintenance and Material Management System 130

Peirson, J. J.
Power Information Center 144

Pepper, S. J.
Environmental Information Division 72

Perkins, K.
Air Force Machinability Data Center 10

197
ALPHABETICAL LIST OF EXPERTS

Peters, A.
Science Information Services 157

Peterson, B. L.
Institute of Environmental Sciences 92

Peterson, C. E.
National Fire Protection Association 116

Pope, G. H.
Underwriters' Laboratories, Inc. 176

Potter, R. E.
Radio Technical Commission for Aeronautics 148

Preston, H. O.
American Psychological Association 22

Price, J.
National Referral Center 122

Pryor, H. E.
NASA Scientific and Technical Information Office 110

Pyle, N.
National Safety Council 123

Quinn, R.
American Nuclear Society 19

R

Read, M. E.
Diffusion in Metals Data Center 63

Reed, J. H.
National Transportation Safety Board 126

Rich, C. E.
Naval Aerospace Recovery Facility 127

Richards, F. T.
Government-Industry Data Exchange Program 84

Richardson, J. M.
Office of Telecommunications 140

Robinson, G. C.
Nuclear Safety Information Center 135

Roder, H. M.
Cryogenic Data Center 55

Rogers, S.
Society for Computer Simulation 161

Roll, K. H.
Metal Powder Industries Federation 104

Rosenberg, E. H.
Institute of Gas Technology 93

Rosenstock, H. M.
Atomic and Molecular Ionization Processes Data Center 33

Rosenthal, A. J.
Executive Sciences Institute, Inc. 74

Ross, A. B.
Radiation Chemistry Data Center 146

Roszman, L. J.
Data Center on Atomic Line Shapes and Shifts 58

Roussin, R. W.
Radiation Shielding Information Center 147

Rowson, F. H.
NASA Scientific and Technical Information Office 110

S

Saunders, G. W.
Underwriters' Laboratories, Inc. 176

Schipma, P. B.
Computer Search Center 51

Schmidt, H. W.
Aerospace Safety Research and Data Institute 7

Schora, F. C.
Institute of Gas Technology 93

Schultz, C. W.
Bureau of Explosives 39

Schwaner, T. D.
Environmental Information Division 72

Scolatti, C. A.
Air Force Flight Dynamics Laboratory 9

Scott, R. L.
Nuclear Safety Information Center 135

Searles, C. E.
American Society for Nondestructive Testing 23

Shafer, W. H.
Thermophysical Properties Information Analysis Center 172

Shannon, R. L.
AEC Technical Information Center 3

Sharkey, S. M.
Occupational Safety and Health Administration 137

Shaw, F. A.
Naval Aerospace Recovery Facility 127

Shinnick, W. A.
Technology Applications Center 169

Shriner, R. D.
Aerospace Research Applications Center 6

Simonelli, F. J.
Steel Founders' Society of America 167

198
ALPHABETICAL LIST OF EXPERTS

Simonton, D.
Global Engineering Documentation Service, Inc. 82

Sindel, J. K.
Rockwell Technical Information Processing System 154

Slattery, W. J.
Standards Information Services 166

Smith, H. M.
Environmental Information Division 72

Smith, J. F.
Lead Industries Association, Inc. 97

Snide, R. E.
Air Force Machinability Data Center 10

Spates, J. E.
Harry Diamond Laboratories 66

Staples, B. R.
Electrolyte Data Center 65

Stegmaier, R. B.
Defense Documentation Center 60

Stevens, R. E.
National Fire Protection Association 116

Stewart, A.
Computer Search Center 51

Stokinger, H. Z.
American Conference of Governmental Industrial Hygienists 13

Stout, H. L.
Midwest Research Institute 108

Straka, L. E.
Goodyear Technical Information Center 83

Stumpke, B.
Naval Air Propulsion Test Center 129

Sweeney, U. J.
Convair Aerospace Division, Research Library 53

Swisher, S. D.
Nuclear Safety Information Center 135

T

Thomas, J. C.
Transportation Safety Institute 175

Touloukian, Y. S.
Thermophysical Properties Information Analysis Center 172

Trew, J. R.
National Referral Center 122

Trowbridge, R. P.
American National Standards Institute 18

Trubey, D. K.
Radiation Shielding Information Center 147

Tryon, G. H.
National Fire Protection Association 116

U

Ulsh, R. O.
US Army Research Office 178

V

Van Dolah, R. W.
Pittsburgh Mining and Safety Research Center 143

Van Thiel, M.
Shock Wave Data Center 159

Varon, M. I.
Armed Forces Radiobiology Research Institute 30

Vette, J. I.
National Space Science Data Center 124

Villeforth, J. C.
Bureau of Radiological Health 41

Vlannes, P. N.
NASA Scientific and Technical Information Office 110

W

Wagman, D.
Chemical Thermodynamics Data Center 44

Wagner, J. B.
Materials Research Center 102

Walls, W. L.
National Fire Protection Association 116

Weiss, S.
Aerospace Safety Research and Data Institute 7

Wente, V. A.
NASA Scientific and Technical Information Office 110

West, C. H.
American Society of Lubrication Engineers 25

Whitaker, H. B.
Underwriters' Laboratories, Inc. 176

White, W. H.
Numerical Control Society 136

Wiese, W. L.
Atomic Transition Probabilities Data Center 35

Data Center on Atomic Line Shapes and Shifts 58

199
Wilde, D. U
New England Research Application Center 131

Williams, A.
Naval Air Propulsion Test Center 129

Woodworth, M. E.
National Fire Protection Association 116

Y

Yager, E.
Instrument Society of America 96

Z

Zabetakis, M. G.
Pittsburgh Mining and Safety Research Center 143

Zobel, W.
Radiation Shielding Information Center 147

Zwolinski, B. J.
Thermodynamics Research Center 171

Zwoyer, E.
American Society of Civil Engineers 24
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

A

Abort procedures
Air Force Flight Dynamics Laboratory 9
SAR-ASSIST, Inc. 156

Abrasives
Copper Data Center 54

Acceleration/deceleration
Army Ballistic Research Laboratories 31

Accident analysis
Armed Forces Institute of Pathology, Aerospace Branch 29
Bureau of Aviation Safety 38
Civil Aeromedical Institute 46
Flight Safety Foundation 78
Guggenheim Center for Aerospace Health and Safety 85
Highway Safety Research Institute 88
National Aircraft Accident Investigation School 111
National Safety Council 123
National Transportation Safety Board 126
Pennsylvania Transportation and Traffic Safety Center 141
Transportation Safety Institute 175

Accident data
Armed Forces Institute of Pathology, Aerospace Branch 29
Bureau of Aviation Safety 38
Federal Aviation Administration 76
Flight Safety Foundation 78
Guggenheim Center for Aerospace Health and Safety 85
Highway Safety Research Institute 88
National Aircraft Accident Investigation School 111
National Institute for Occupational Safety and Health 119
National Transportation Safety Board 126

Accident/incident investigation
AEC Technical Information Center 3
Armed Forces Institute of Pathology, Aerospace Branch 29
Bureau of Aviation Safety 38
Bureau of Explosives 39
Civil Aeromedical Institute 46
Federal Aviation Administration 76
Flight Safety Foundation 78
Guggenheim Center for Aerospace Health and Safety 85
Highway Safety Research Institute 88
National Aircraft Accident Investigation School 111
National Institute for Occupational Safety and Health 119
National Transportation Safety Board 126

Accident/incident reporting
AEC Technical Information Center 3
Armed Forces Institute of Pathology, Aerospace Branch 29
Bureau of Aviation Safety 38
Bureau of Explosives 39
Civil Aeromedical Institute 46
Flight Safety Foundation 78
Guggenheim Center for Aerospace Health and Safety 85
Highway Safety Research Institute 88
National Aircraft Accident Investigation School 111
National Transportation Safety Board 126
Nuclear Safety Information Center 135
Safety of Explosive Ordnance Databank 155

Accident prevention
Bureau of Motor Carrier Safety 40
National Safety Council 123
System Safety Office, Electronic Systems Division 168
Transportation Safety Institute 175

Accident procedures
Space and Missiles Test Center 165

Accident reporting
American National Standards Institute 18

Accidents
American Society of Safety Engineers 27
Armed Forces Institute of Pathology, Aerospace Branch 29
National Fire Protection Association 116
Transportation Safety Institute 175

Accidents/incidents
National Safety Council 123

Acoustic loading
American Institute of Physics 15
Shock and Vibration Information Center 158

Acoustic radiation
Management Information Systems Directorate, STINFO Branch 100
Shock and Vibration Information Center 158

Acoustics
Shock and Vibration Information Center 158
US Army Environmental Hygiene Agency 177

Adhesives
Aerospace Research Applications Center 6
Goodyear Technical Information Center 83

Aerodynamic flow
Army Ballistic Research Laboratories 31

Aerodynamic friction
Army Ballistic Research Laboratories 31

Aerodynamics
Air Force Flight Dynamics Laboratory 9

Aerospace explosives
Aerospace Safety Research and Data Institute 7
DoD Nuclear Information and Analysis Center 61
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Aerospace ground facilities
  Space and Missile Test Center 165

Aerospace ground operations
  American Society for Nondestructive Testing 23

Aerospace medicine
  Aerospace and Environmental Medicine Information System 4
  Armed Forces Institute of Pathology, Aerospace Branch 29
  Civil Aeronautical Institute 46
  Guggenheim Center for Aerospace Health and Safety 85
  National Library of Medicine 120

Aerospace nuclear safety
  ABC Technical Information Center 3
  American Conference of Governmental Industrial Hygienists 13

Aerospace safety engineering
  Aerospace Safety Research and Data Institute 7
  American Society for Nondestructive Testing 23
  American Welding Society 28
  General Electric Space Division 79
  Regional Information and Communication Exchange 151
  Reliability Analysis Center 152
  Space and Missile Test Center 165
  Transportation Safety Institute 175

Air
  National Climatic Center 114

Air navigation
  Air Force Flight Dynamics Laboratory 9
  American National Standards Institute 18
  Illuminating Engineering Society 89
  Reliability Analysis Center 152

Air navigation aids
  Federal Aviation Administration 76
  Office of Telecommunications 140
  Radio Technical Commission for Aeronautics 148

Air pollutants
  Air Pollution Technical Information Center 11
  American Welding Society 28
  Environment Information Center, Inc. 70
  Institute of Environmental Sciences 92
  Lead Industries Association, Inc. 97
  Midwest Research Institute 108
  Society of Automotive Engineers, Inc. 162
  Toxicology Information Program 174
  US Army Environmental Hygiene Agency 177

Air pollution
  Air Pollution Technical Information Center 11
  Environment Information Center, Inc. 70
  Environmental Information Analysis Center 71
  National Climatic Center 114
  Toxicology Information Program 174
  US Army Environmental Hygiene Agency 177

Air pollution control
  American Medical Association 17
  American Welding Society 28
  Environmental Information Analysis Center 71
  Guggenheim Center for Aerospace Health and Safety 85
  Institute of Environmental Sciences 92
  Pittsburgh Mining and Safety Research Center 143
  Science Information Services 157
  Tin Research Institute, Inc. 173

Air rescue/recovery operations
  Environmental Information Division 72
  SAR-ASSIST, Inc. 156
  Space and Missile Test Center 165

Air traffic control
  Office of Telecommunications 140

Air traffic control facilities
  Federal Aviation Administration 76
  Flight Safety Foundation 78
  Office of Telecommunications 140
  Radio Technical Commission for Aeronautics 148
  Space and Missile Test Center 165

Air traffic control operations
  Federal Aviation Administration 76
  Flight Safety Foundation 78
  Radio Technical Commission for Aeronautics 148

Air transportation
  Transportation Safety Institute 175

Aircraft certification
  American Society for Nondestructive Testing 23

Aircraft communications
  Defence and Civil Institute of Environmental Medicine 59
  Electromagnetic Metrology Information Center 66
  Electronic Industries Association 67
  Management Information Systems Directorate, STINFO Branch 100
  Office of Telecommunications 140
  Radio Technical Commission for Aeronautics 148
  Reliability Analysis Center 152
  System Safety Office, Electronic Systems Division 168

Aircraft fuels
  Combustion Institute 48

Aircraft instrumentation
  Numerical Control Society 136

Aircraft laws/standards/regulations
  American National Standards Institute 18

Aircraft problems
  Aerospace Safety Research and Data Institute 7
  Air Force Flight Dynamics Laboratory 9
  Federal Aviation Administration 76
  National Aircraft Accident Investigation School 111
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Aircraft problems (cont'd)
National Transportation Safety Board 126
Southwest Research Institute 164

Aircraft propulsion systems
Naval Air Propulsion Test Center 129

Aircraft servicing
American National Standards Institute 18
American Society for Nondestructive Testing 23
Space and Missile Test Center 165

Aircraft subsystems
Air Force Flight Dynamics Laboratory 9
Flight Safety Foundation 78
Reliability Analysis Center 152

Aircraft types
Air Force Flight Dynamics Laboratory 9

Airport construction
American Society of Civil Engineers 24

Airport emergency facilities
National Aircraft Accident Investigation School 111

Airport emergency facilities/equipment
American National Standards Institute 18
Factory Mutual Research Corp. 75
National Safety Council 123
Occupational Safety and Health Administration 137

Airport facilities
American Society of Civil Engineers 24

Airport lighting
American National Standards Institute 18
American Society of Civil Engineers 24

Aluminum
Air Force Machinability Data Center 10
Alloy Data Center 12
Mechanical Properties Data Center 103
Metal Powder Industries Federation 104
Metals and Ceramics Information Center 105

Aluminum alloys
Metal Powder Industries Federation 104
Metals and Ceramics Information Center 105

Analytical chemistry
Rare-Earth Information Center 149

Analytical methods
Nondestructive Testing Information Center 133
Office of Standard Reference Materials 139

Analytical techniques
Nondestructive Testing Information Center 133

Anthropometry
Society of Automotive Engineers, Inc. 162

Applied forces (stresses)
American Welding Society 28

Applied forces (stresses) (cont'd)
Georgia Information Dissemination Center 80
Mechanical Properties Data Center 103

Applied research
Regional Information and Communication Exchange 151

Astronomy
Microwave Spectral Data Center 107

Astrophysics
Microwave Spectral Data Center 107

Atmospheres
National Climatic Center 114

Atmospheric monitoring
American Conference of Governmental Industrial Hygienists 13
Environmental Information Analysis Center 71
National Climatic Center 114
Pittsburgh Mining and Safety Research Center 143

Atmospheric sciences
Aerospace Materials Information Center 5
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169
Western Research Application Center 180

Atomic physics
Atomic and Molecular Ionization Processes Data Center 33
Atomic Energy Levels Data Center 34
Atomic Transition Probabilities Data Center 35
Controlled Fusion Atomic Data Center 52
Data Center on Atomic Line Shapes and Shifts 58
Photonuclear Data Center 142

Atomic structure
Atomic and Molecular Ionization Processes Data Center 33
Atomic Energy Levels Data Center 34
Atomic Transition Probabilities Data Center 35
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Atomic structure (cont'd)
- Controlled Fusion Atomic Data Center 52
- Data Center on Atomic Line Shapes and Shifts 58

Auxiliary power systems
- Power Information Center 144

Ballistic missiles
- Safety of Explosive Ordnance Databank 155

Basic materials
- Regional Information and Communication Exchange 151

Basic research
- Illuminating Engineering Society 89
- Regional Information and Communication Exchange 151
- US Army Research Office 178

Batteries
- Battery Information Index and Energy Storage Information Center 36

Behavioral sciences
- Aerospace Materials Information Center 5
- American Society of Mechanical Engineers 26
- Computer Search Center 51
- Convair Aerospace Division Research Library 53
- Defense Documentation Center 60
- Engineering Index, Inc. 68
- Lockheed Technical Information Center 98
- NASA Scientific and Technical Information Office 110
- National Referral Center 122
- National Technical Information Service 125
- Naval Air Development Center 128
- New England Research Application Center 131
- North Carolina Science and Technology Research Center 134
- Redstone Scientific Information Center 150
- Rockwell Technical Information Processing System 154
- Smithsonian Science Information Exchange 160
- Technology Application Center 169
- Western Research Application Center 180

Bibliographies
- Regional Information and Communication Exchange 151
- US Army Research Office 178

Bioinstrumentation
- Armed Forces Radiobiology Research Institute 30

Biological sciences
- Aerospace Materials Information Center 5
- American Industrial Hygiene Association 14
- Computer Search Center 51
- Convair Aerospace Division Research Library 53
- Defense Documentation Center 60
- Engineering Index, Inc. 68
- Lockheed Technical Information Center 98
- NASA Scientific and Technical Information Office 110
- National Referral Center 122
- National Technical Information Service 125
- Naval Air Development Center 128
- New England Research Application Center 131
- North Carolina Science and Technology Research Center 134
- Redstone Scientific Information Center 150
- Rockwell Technical Information Processing System 154
- Smithsonian Science Information Exchange 160
- Technology Application Center 169
- Western Research Application Center 180

Bioengineering
- Aerospace and Environmental Medicine Information System 4
- American Medical Association 17
- Environmental Information Analysis Center 71
- Pittsburgh Mining and Safety Research Center 143
- Regional Information and Communication Exchange 151

Biononpropellants
- Chemical Propulsion Information Agency 43

Boilers
- American Society of Safety Engineers 27
- Copper Data Center 54

Breathing apparatus
- Pittsburgh Mining and Safety Research Center 143

Bronze
- Copper Data Center 54
- Tin Research Institute, Inc. 173

Buffeting
- Army Ballistic Research Laboratories 31

Built-in test equipment
- Project SETE 145
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Chemistry (cont'd)
National Technical Information Service 125
Naval Air Development Center 128
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169
Tim Research Institute, Inc. 173
Western Research Application Center 180

Civil engineering
Aerospace Materials Information Center 5
Aerospace Research Applications Center 6
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
Materials Research Center 102
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Regional Information and Communication Exchange 151
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169
Western Research Application Center 180

Cleaning
Coating and Chemical Laboratory 47
Clearinghouse
Government-Industry Data Exchange Program 84
US Army Research Office 178

Climatic ranges
Environmental Science Information Center 73
National Center for Atmospheric Research 113
National Climatic Center 114

Clothing
Institute of Textile Technology 95
X-Ray Attenuation Coefficient Information Center 181

Coatings
Coating and Chemical Laboratory 47
Copper Data Center 54
Lead Industries Association, Inc. 97
<table>
<thead>
<tr>
<th>INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coatings (cont'd)</strong></td>
</tr>
<tr>
<td>National Association of Corrosion Engineers 112</td>
</tr>
<tr>
<td>Cobalt</td>
</tr>
<tr>
<td>Alloy Data Center 12</td>
</tr>
<tr>
<td>Codes</td>
</tr>
<tr>
<td>Flight Safety Foundation 78</td>
</tr>
<tr>
<td>National Aircraft Accident Investigation School 111</td>
</tr>
<tr>
<td>National Transportation Safety Board 126</td>
</tr>
<tr>
<td>Standards Information Services 166</td>
</tr>
<tr>
<td>Colorings</td>
</tr>
<tr>
<td>Copper Data Center 54</td>
</tr>
<tr>
<td>Combustible gas detectors</td>
</tr>
<tr>
<td>Pittsburgh Mining and Safety Research Center 143</td>
</tr>
<tr>
<td>Combustion</td>
</tr>
<tr>
<td>Institute of Gas Technology 93</td>
</tr>
<tr>
<td>Combustion products</td>
</tr>
<tr>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td>Institute of Gas Technology 93</td>
</tr>
<tr>
<td>Commercial aviation</td>
</tr>
<tr>
<td>Factory Mutual Research Corp. 75</td>
</tr>
<tr>
<td>National Aircraft Accident Investigation School 111</td>
</tr>
<tr>
<td>National Transportation Safety Board 126</td>
</tr>
<tr>
<td>Transportation Safety Institute 175</td>
</tr>
<tr>
<td>Communications</td>
</tr>
<tr>
<td>Air Force Flight Dynamics Laboratory 9</td>
</tr>
<tr>
<td>Diver Equipment Information Center 64</td>
</tr>
<tr>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td>Management Information Systems Directorate, STINFO Branch 100</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics 148</td>
</tr>
<tr>
<td>Reliability Analysis Center 152</td>
</tr>
<tr>
<td>Communications systems</td>
</tr>
<tr>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td>Electronic Industries Association 67</td>
</tr>
<tr>
<td>General Electric Space Division 79</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics 148</td>
</tr>
<tr>
<td>Compatibility</td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
</tr>
<tr>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td>National Association of Corrosion Engineers 112</td>
</tr>
<tr>
<td>Components</td>
</tr>
<tr>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td>Composites</td>
</tr>
<tr>
<td>Aerospace Research Applications Center 6</td>
</tr>
<tr>
<td>Copper Data Center 54</td>
</tr>
<tr>
<td>Metals and Ceramics Information Center 105</td>
</tr>
<tr>
<td>Metals Information Service 106</td>
</tr>
<tr>
<td>Compounds</td>
</tr>
<tr>
<td>Thermodynamics Research Center 171</td>
</tr>
<tr>
<td>Compressed gases</td>
</tr>
<tr>
<td>American Petroleum Institute 20</td>
</tr>
<tr>
<td>Chlorine Institute 45</td>
</tr>
<tr>
<td>Compressed Gas Association, Inc. 50</td>
</tr>
<tr>
<td>Institute of Gas Technology 93</td>
</tr>
<tr>
<td>National LP-Gas Association 121</td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
</tr>
<tr>
<td>Construction materials</td>
</tr>
<tr>
<td>American Institute of Steel Construction, Inc. 16</td>
</tr>
<tr>
<td>American Society of Civil Engineers 24</td>
</tr>
<tr>
<td>Highway Research Information Service 87</td>
</tr>
<tr>
<td>Office of Standard Reference Materials 139</td>
</tr>
<tr>
<td>Construction practices</td>
</tr>
<tr>
<td>American Institute of Steel Construction, Inc. 16</td>
</tr>
<tr>
<td>American Society of Civil Engineers 24</td>
</tr>
<tr>
<td>Highway Research Information Service 87</td>
</tr>
<tr>
<td>Contamination</td>
</tr>
<tr>
<td>American Medical Association 17</td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
</tr>
<tr>
<td>Control systems</td>
</tr>
<tr>
<td>Reliability Analysis Center 152</td>
</tr>
<tr>
<td>Controls</td>
</tr>
<tr>
<td>Electronic Industries Association 67</td>
</tr>
<tr>
<td>Copper</td>
</tr>
<tr>
<td>Air Force Machinability Data Center 10</td>
</tr>
<tr>
<td>Alloy Data Center 12</td>
</tr>
<tr>
<td>Metal Powder Industries Federation 104</td>
</tr>
<tr>
<td>Copper alloys</td>
</tr>
<tr>
<td>Copper Data Center 54</td>
</tr>
<tr>
<td>Corrosion</td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
</tr>
<tr>
<td>Copper Data Center 54</td>
</tr>
<tr>
<td>Industrial Fasteners Institute 90</td>
</tr>
<tr>
<td>National Association of Corrosion Engineers 112</td>
</tr>
<tr>
<td>Corrosion characteristics</td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
</tr>
<tr>
<td>Corrosion properties</td>
</tr>
<tr>
<td>Air Force Flight Dynamics Laboratory 9</td>
</tr>
<tr>
<td>American Petroleum Institute 20</td>
</tr>
<tr>
<td>American Welding Society 28</td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
</tr>
<tr>
<td>Georgia Information Dissemination Center 80</td>
</tr>
<tr>
<td>Industrial Fasteners Institute 90</td>
</tr>
<tr>
<td>Manufacturing Chemists Association, Inc. 101</td>
</tr>
<tr>
<td>Mechanical Properties Data Center 103</td>
</tr>
<tr>
<td>Metal Powder Industries Federation 104</td>
</tr>
<tr>
<td>National Association of Corrosion Engineers 112</td>
</tr>
<tr>
<td>Corrosives</td>
</tr>
<tr>
<td>Chlorine Institute 45</td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
</tr>
<tr>
<td>Institute of Environmental Sciences 92</td>
</tr>
</tbody>
</table>
| National Association of Corrosion Engine-
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Corrosives (cont'd) 112

Cosmic radiation 108
American Institute of Physics 15 Microwave Spectral Data Center 107 National Space Science Data Center 124 Radiation Shielding Information Center 147

Cosmic rays 106
American Institute of Physics 15 Microwave Spectral Data Center 107 National Space Science Data Center 124 Radiation Shielding Information Center 147

Couplings 25
American Society of Lubrication Engineers Copper Data Center 54

Crew considerations 105
American Conference of Governmental Industrial Hygienists 13 Biosciences Information Service 37 Defence and Civil Institute of Environmental Medicine 59 Institute of Environmental Sciences 92 X-Ray Attenuation Coefficient Information Center 181

Crews 156
SAR-ASSIST, Inc.

Cryogenic facility safety design 79
General Electric Space Division

Cryogenic fluids 48
Combustion Institute

Cryogenic fluids handling 40
Bureau of Motor Carrier Safety

Cryogenic fluids transportation 39
Bureau of Explosives 40
Bureau of Motor Carrier Safety

Cryogenic safety 7
Aerospace Safety Research and Data Institute
Cryogenic Data Center 55
Factory Mutual Research Corp. 75
General Electric Space Division 79
Institute of Gas Technology 93
Manufacturing Chemists Association, Inc. 101
Mechanical Properties Data Center 103
National Fire Protection Association 116
National LP-Gas Association 121
Southwest Research Institute 164

Cryogenic systems 48
Combustion Institute

Cryogenic systems hazards 27
American Society of Safety Engineers 27
Combustion Institute 48
General Electric Space Division 79
Office of Standard Reference Data 138

Cryogenic systems materials selection 79
General Electric Space Division

Cryogenic systems materials (cont'd) 103
Mechanical Properties Data Center
Midwest Research Institute 108
Navy Maintenance and Material Management System 130
Office of Standard Reference Data 138

Crystal properties 106
Metals Information Service

Crystal structures 153
Research Materials Information Center

Crystallography 57
Crystal Data Center

Cubical expansion 55
Cryogenic Data Center

Cupro-beryllium alloys 54
Copper Data Center 54
Metals and Ceramics Information Center 105

Cupro-nickel alloys 54
Copper Data Center 54

Dangerous industrial radiation 3
AEC Technical Information Center 7
Aerospace Safety Research and Data Institute 7
American Conference of Governmental Industrial Hygienists 13
American National Standards Institute 18
Armed Forces Radiobiology Research Institute 30
Biosciences Information Service 37
Environment Information Center, Inc. 70
Management Information Systems Directorate, STINFO Branch 100
National Institute for Occupational Safety and Health 119
Photonuclear Data Center 142
Southwest Research Institute 164
US Army Environmental Hygiene Agency 177

Dangerous materials 13
American Conference of Governmental Industrial Hygienists 13
American National Standards Institute 18
Compressed Gas Association, Inc. 50
Factory Mutual Research Corp. 75
Manufacturing Chemists Association, Inc. 101
Southwest Research Institute 164
Underwriters' Laboratories, Inc. 176
US Army Environmental Hygiene Agency 177

Dangerous materials disposal 11
Air Pollution Technical Information Center 20
American Petroleum Institute 20
Chlorine Institute 45
Compressed Gas Association, Inc. 50
Environment Information Center, Inc. 70
National Fire Protection Association 116

Data and information 178
US Army Research Office
<table>
<thead>
<tr>
<th>Area of Expertise</th>
<th>Information Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decompression</td>
<td>SAR-ASSIST, Inc. 156</td>
</tr>
<tr>
<td>Deflagrations</td>
<td>Chemical Propulsion Information Agency 43 National Fluid Power Association 118</td>
</tr>
<tr>
<td>Density</td>
<td>Thermophysical Properties Information Analysis Center 172</td>
</tr>
<tr>
<td>Detection</td>
<td>National Council on Radiation Protection and Measurements 115</td>
</tr>
<tr>
<td>Detection and warning systems</td>
<td>American National Standards Institute 18 Instrument Society of America 96</td>
</tr>
<tr>
<td>Density</td>
<td>National Aircraft Accident Investigation School 111</td>
</tr>
<tr>
<td>Density</td>
<td>Nondestructive Testing Information Center 133</td>
</tr>
<tr>
<td>Density</td>
<td>Occupational Safety and Health Administration 137</td>
</tr>
<tr>
<td>Density</td>
<td>Underwriters' Laboratories, Inc. 176</td>
</tr>
<tr>
<td>Detonations</td>
<td>Federal Fire Council 77</td>
</tr>
<tr>
<td>Displays</td>
<td>Electronic Industries Association 67 Reliability Analysis Center 152</td>
</tr>
<tr>
<td>Dissociation</td>
<td>Atomic and Molecular Ionization Processes Data Center 33</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Aerospace Materials Information Center 5 American Society of Mechanical Engineers 26</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Computer Search Center 51</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Defense Documentation Center 60 Engineering Index, Inc. 68</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Engineering Societies Library 69</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Highway Research Information Service 87</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Institute of Environmental Sciences 92</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Lockheed Technical Information Center 98</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>NASA Scientific and Technical Information Office 110</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>National Referral Center 122</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>National Technical Information Service 125</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Naval Air Development Center 128</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>New England Research Application Center 131</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>North Carolina Science and Technology Research Center 134</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Power Information Center 144</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Redstone Scientific Information Center 150</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Regional Information and Communication Exchange 151</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Rockwell Technical Information Processing System 154</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Smithsonian Science Information Exchange 160</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Technology Application Center 169</td>
</tr>
<tr>
<td>Earth sciences</td>
<td>Western Research Application Center 180</td>
</tr>
<tr>
<td>Economics</td>
<td>Rockwell Technical Information Processing System 154</td>
</tr>
<tr>
<td>Education and training</td>
<td>Transportation Safety Institute 175</td>
</tr>
<tr>
<td>Egress</td>
<td>National Aircraft Accident Investigation School 111</td>
</tr>
<tr>
<td>Egress</td>
<td>Occupational Safety and Health Administration 137</td>
</tr>
<tr>
<td>Egress</td>
<td>Society of the Plastics Industry, Inc. 163</td>
</tr>
<tr>
<td>Electric fields</td>
<td>Controlled Fusion Atomic Data Center 52</td>
</tr>
<tr>
<td>Electrical/electronic engineering</td>
<td>Battery Information Index and Energy Storage Information Center 36</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Aerospace Materials Information Center 5 American Society of Mechanical Engineers 26</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Computer Search Center 51</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Convair Aerospace Division Research Library 53</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Defense Documentation Center 60 Engineering Index, Inc. 68</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Defense Documentation Center 60 Engineering Index, Inc. 68</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>General Electric Space Division 79</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Lockheed Technical Information Center 98</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Materials Research Center 102</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>NASA Scientific and Technical Information Office 110</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>National Referral Center 122</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>National Technical Information Service 125</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Naval Air Development Center 128</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>New England Research Application Center 131</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>North Carolina Science and Technology Research Center 134</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Power Information Center 144</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Redstone Scientific Information Center 150</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Regional Information and Communication Exchange 151</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Rockwell Technical Information Processing System 154</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Smithsonian Science Information Exchange 160</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Technology Application Center 169</td>
</tr>
<tr>
<td>Electrical/electronics engineering</td>
<td>Western Research Application Center 180</td>
</tr>
<tr>
<td>Electricity</td>
<td>Battery Information Index and Energy Storage Information Center 36</td>
</tr>
<tr>
<td>Electricity</td>
<td>Power Information Center 144</td>
</tr>
<tr>
<td>Electrolysis</td>
<td>Battery Information Index and Energy Storage Information Center 36</td>
</tr>
<tr>
<td>Electrolysis</td>
<td>Electrolyte Data Center 65</td>
</tr>
</tbody>
</table>
## INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

<table>
<thead>
<tr>
<th>Electromagnetic disturbances</th>
<th>American Institute of Physics 15</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td></td>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td></td>
<td>Environmental Science Information Center 73</td>
</tr>
<tr>
<td></td>
<td>General Electric Space Division 79</td>
</tr>
<tr>
<td></td>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td></td>
<td>Radiation Chemistry Data Center 146</td>
</tr>
<tr>
<td>Electromagnetic interference</td>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td></td>
<td>Management Information Systems Directorate STINFO Branch 100</td>
</tr>
<tr>
<td></td>
<td>National Space Science Data Center 124</td>
</tr>
<tr>
<td></td>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td></td>
<td>Project SETE 145</td>
</tr>
<tr>
<td>Electromagnetic phenomena</td>
<td>Atomic and Molecular Ionization Processes Data Center 35</td>
</tr>
<tr>
<td></td>
<td>Metals Information Service 106</td>
</tr>
<tr>
<td></td>
<td>Photonuclear Data Center 142</td>
</tr>
<tr>
<td>Electromagnetic radiation</td>
<td>American Institute of Physics 15</td>
</tr>
<tr>
<td></td>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td></td>
<td>Atomic Transition Probabilities Data Center 35</td>
</tr>
<tr>
<td></td>
<td>Bureau of Radiological Health 41</td>
</tr>
<tr>
<td></td>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td></td>
<td>Management Information Systems Directorate STINFO Branch 100</td>
</tr>
<tr>
<td></td>
<td>National Space Science Data Center 124</td>
</tr>
<tr>
<td></td>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td></td>
<td>Photonuclear Data Center 142</td>
</tr>
<tr>
<td></td>
<td>Project SETE 145</td>
</tr>
<tr>
<td></td>
<td>Radiation Chemistry Data Center 146</td>
</tr>
<tr>
<td></td>
<td>Radiation Shielding Information Center 147</td>
</tr>
<tr>
<td>Electronic components</td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electronic countermeasures</td>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td></td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electronic devices</td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electronic networks/circuits</td>
<td>General Electric Space Division 79</td>
</tr>
<tr>
<td></td>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td></td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electronic properties</td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Electronic</td>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Environmental data</td>
<td>Environmental Information Analysis Center 71</td>
</tr>
<tr>
<td>Environmental degradation</td>
<td>Environmental Information Analysis Center 71</td>
</tr>
<tr>
<td>Environmental degradation</td>
<td>American Conference of Governmental Industrial Hygienists 13</td>
</tr>
<tr>
<td></td>
<td>American Welding Society 28</td>
</tr>
<tr>
<td></td>
<td>Defence and Civil Institute of Environmental Medicine 59</td>
</tr>
<tr>
<td></td>
<td>Environmental Information Center, Inc. 79</td>
</tr>
<tr>
<td></td>
<td>Environmental Information Analysis Center 71</td>
</tr>
<tr>
<td></td>
<td>National Institute for Occupational Safety and Health 119</td>
</tr>
<tr>
<td></td>
<td>Society of Automotive Engineers, Inc. 162</td>
</tr>
<tr>
<td></td>
<td>Space and Missile Test Center 165</td>
</tr>
</tbody>
</table>

| Emergency descent                     | National Aircraft Accident Investigation School 111 |
|                                       | National Transportation Safety Board 126 |
|                                       | Naval Aerospace Recovery Facility 127 |
|                                       | SAR-ASSIST, Inc. 156                  |
| Emergency equipment                    | Air Force Flight Dynamics Laboratory 9 |
|                                       | Environmental Information Division 72 |
|                                       | Radio Technical Commission for Aeronautics 148 |
| Emergency planning                     | Air Force Flight Dynamics Laboratory 9 |
|                                       | American Medical Association 17       |
|                                       | Combustion Institute 48               |
|                                       | Environmental Information Division 72 |
|                                       | SAR-ASSIST, Inc. 156                  |
| Emergency procedures                   | National Safety Council 123          |
|                                       | SAR-ASSIST, Inc. 156                  |
| Energy conversion                      | Battery Information Index and Energy Storage Information Center 36 |
|                                       | Chemical Propulsion Information Agency 43 |
|                                       | Combustion Institute 48               |
|                                       | Committee on Fire Research 49         |
| Engineering                            | Naval Air Propulsion Test Center 129  |
| Engineering sciences                   | Highway Research Information Service 87 |
| Entropy                                | Electrolyte Data Center 65           |
| Entropy                                | Thermodynamics Research Center 171   |
|                                       | Thermophysical Properties Information Analysis Center 172 |
| Environment                            | Environmental Information Analysis Center 71 |
| Environmental data                     | Environmental Information Analysis Center 71 |
| Environmental degradation              | American Conference of Governmental Industrial Hygienists 13 |
|                                       | American Welding Society 28          |
|                                       | Defence and Civil Institute of Environmental Medicine 59 |
|                                       | Environmental Information Center, Inc. 79 |
|                                       | Environmental Information Analysis Center 71 |
|                                       | National Institute for Occupational Safety and Health 119 |
|                                       | Society of Automotive Engineers, Inc. 162 |
|                                       | Space and Missile Test Center 165     |

209
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Environmental effects
American Industrial Hygiene Association 14
American Medical Association 17
American Society of Civil Engineers 24
Environmental Information Analysis Center 71
Environmental Science Information Center 73
Guggenheim Center for Aerospace Health and Safety 85
Institute of Environmental Sciences 92
National LP-Gas Association 121
Safety of Explosive Ordnance Databank 155

Environmental factors
American Industrial Hygiene Association 14
Environmental Information Analysis Center 71

Environmental influences
Air Force Flight Dynamics Laboratory 9
American Conference of Governmental Industrial Hygienists 13
American Institute of Physics 15
Army Ballistic Research Laboratories 31
Environmental Information Analysis Center 71
Environmental Information Division 72
Environmental Science Information Center 73
Flight Safety Foundation 78
General Electric Space Division 79
Georgia Information Dissemination Center 80
Institute of Environmental Sciences 92
Midwest Research Institute 108
National Center for Atmospheric Research 113

Environmental information
Environmental Information Analysis Center 71

Environmental sciences
American Nuclear Society 19
Environmental Information Analysis Center 71
Science Information Services 157

Equipment
Underwriters' Laboratories, Inc. 176

Escape
Bureau of Explosives 39
DoD Nuclear Information and Analysis Center 61
Pittsburgh Mining and Safety Research Center 143
SAR-ASSIST, Inc. 156

Ethylene
American Petroleum Institute 20

Evaluation
Office of Standard Reference Materials 139
US Army Research Office 178

Experimental aircraft
Air Force Flight Dynamics Laboratory 9

Experimental alloys
Metals and Ceramics Information Center 105

Explosion
DoD Nuclear Information and Analysis Center 61

Explosion and detonations
American Petroleum Institute 21

Explosions
Bureau of Explosives 39
Federal Fire Council 77
National Fluid Power Association 118
Pittsburgh Mining and Safety Research Center 143
Safety of Explosive Ordnance Databank 155

Explosive devices
Bureau of Explosives 39
DoD Nuclear Information and Analysis Center 61
Safety of Explosive Ordnance Databank 155

Explosive devices tests
Bureau of Explosives 39
DoD Nuclear Information and Analysis Center 61
Harry Diamond Laboratories 86
Safety of Explosive Ordnance Databank 155

Explosive materials
Bureau of Explosives 39
Safety of Explosive Ordnance Databank 155

Explosive materials tests
Bureau of Explosives 39
Safety of Explosive Ordnance Databank 155

Explosives
American Petroleum Institute 20
Bureau of Explosives 39
Combustion Institute 48
Committee on Fire Research 49
Compressed Gas Association, Inc. 50
Institute of Gas Technology 93
Office of Standard Reference Data 138
Pittsburgh Mining and Safety Research Center 143
Safety of Explosive Ordnance Databank 155
Shock Wave Data Center 159

Explosives disposal
Bureau of Explosives 39
Manufacturing Chemists Association, Inc. 101
Safety of Explosive Ordnance Databank 155

Explosives safety
Bureau of Explosives 39
Combustion Institute 48
DoD Nuclear Information and Analysis Center 61
Factory Mutual Research Corp. 75
Federal Fire Council 77
Manufacturing Chemists Association, Inc. 101
National Fire Protection Association 116
Nondestructive Testing Information Analysis Center 132
Pittsburgh Mining and Safety Research Center 143
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Explosives safety (cont’d)
Safety of Explosive Ordnance Databank 155

Explosives technology
Safety of Explosive Ordnance Databank 155

Extinguishing agents
Federal Fire Council 77

Extinguishment and control
Federal Fire Council 77

Extraterrestrial environmental hazards
AEC Technical Information Center 3
Aerospace and Environmental Medicine Information System 4
Aerospace Safety Research and Data Institute 7
Environmental Science Information Center 73
Institute of Environmental Sciences 92
National Space Science Data Center 124

Fabrication
Society of the Plastics Industry, Inc. 163

Fabrication processes
American Institute of Steel Construction, Inc. 16
American National Standards Institute 18
American Welding Society 29
Georgia Information Dissemination Center 80
Mechanical Properties Data Center 103
Metals Information Service 106
Numerical Control Society 136

Failure mechanisms
American Welding Society 28
Army Materials and Mechanics Research Center 32
Georgia Information Dissemination Center 80
Government-Industry Data Exchange Program 84
Highway Research Information Service 87
Industrial Fasteners Institute 90
Mechanical Properties Data Center 103

Fasteners
Copper Data Center 54
Industrial Fasteners Institute 90

Fastening methods
American Institute of Steel Construction, Inc. 16
Army Materials and Mechanics Research Center 32
Georgia Information Dissemination Center 80
Industrial Fasteners Institute 90

Fatigue (materials)
American Institute of Physics 15
Army Materials and Mechanics Research Center 32
Industrial Fasteners Institute 90
Shock and Vibration Information Center 158

Ferroelectrics
System Safety Office, electronic systems division 168

Ferrous alloys
Metals Information Service 106

Ferrous metals
Air Force Machinability Data Center 10
Alloy Data Center 12
Army Materials and Mechanics Research Center 32
Metal Powder Industries Federation 104
Rare-Earth Information Center 149
Steel Founders’ Society of America 167

Finishes
Copper Data Center 54

Finishing (metals)
Metals Information Service 106

Fire
Chemical Propulsion Information Agency 43
Coating and Chemical Laboratory 47
Committee on Fire Research 49
Factory Mutual Research Corp. 77
Institute of Gas Technology 93
National Fire Protection Association 116

Fire accident training
Federal Fire Council 77
Occupational Safety and Health Administration 137

Fire and explosion chemistry
Army Ballistic Research Laboratories 31
Midwest Research Institute 108
Underwriters’ Laboratories, Inc. 176

Fire and explosion dynamics
Army Ballistic Research Laboratories 31
DoD Nuclear Information and Analysis Center 61
Pittsburgh Mining and Safety Research Center 143
Underwriters’ Laboratories, Inc. 176

Fire detection
Federal Fire Council 77

Fire, explosion, and detonations
Aerospace Safety Research and Data Institute 7
American Petroleum Institute 20
American Petroleum Institute 21
American Society for Nondestructive Testing 23
Army Ballistic Research Laboratories 31
Committee on Fire Research 49
Factory Mutual Research Corp. 77
National Fire Protection Association 116
Southwest Research Institute 164

Fire extinguishment
Bureau of Explosives 39
Pittsburgh Mining and Safety Research Center 143
Transportation Safety Institute 175

Fire extinguishment methods
American National Standards Institute 18
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Fire extinguishment methods (cont'd)
   American Society for Nondestructive Testing 23

Fire extinguishment testing
   American Society for Nondestructive Testing 23
   Underwriters' Laboratories, Inc. 176

Fire fighting
   Bureau of Explosives 39
   Committee on Fire Research 49
   Federal Fire Council 77
   National Aircraft Accident Investigation School 111
   National Transportation Safety Board 126
   Pittsburgh Mining and Safety Research Center 143

Fire fighting clothing
   Defence and Civil Institute of Environmental Medicine 59
   Federal Aviation Administration 76
   National Institute for Occupational Safety and Health 119
   Occupational Safety and Health Administration 137
   Underwriters' Laboratories, Inc. 176

Fire fighting equipment
   American National Standards Institute 18
   Federal Aviation Administration 76
   National Aircraft Accident Investigation School 111
   National Transportation Safety Board 126
   Occupational Safety and Health Administration 137
   Underwriters' Laboratories, Inc. 176

Fire fighting services
   Committee on Fire Research 49

Fire hazard evaluation
   Bureau of Explosives 39
   Federal Fire Council 77

Fire modeling
   Midwest Research Institute 108
   Society for Computer Simulation 161
   Underwriters' Laboratories, Inc. 176

Fire models
   Midwest Research Institute 108
   Society for Computer Simulation 161
   Underwriters' Laboratories, Inc. 176

Fire point
   National Fire Protection Association 116

Fire prevention
   American Society of Safety Engineers 27
   Combustion Institute 48
   Committee on Fire Research 49
   Federal Fire Council 77

Fire protection
   American Society of Safety Engineers 27
   Combustion Institute 48
   Committee on Fire Research 49
   National Fire Protection Association 116
   National Safety Council 123
   Society of the Plastics Industry, Inc. 163

Fire retardant materials
   American National Standards Institute 18
   Office of Standard Reference Data 138
   Underwriters' Laboratories, Inc. 176

Fire retardants
   Coating and Chemical Laboratory 47

Fire safety
   DoD Nuclear Information and Analysis Center 67
   Transportation Safety Institute 175

Fire safety evaluation
   Federal Fire Council 77

Fire simulation
   Society for Computer Simulation 161
   Underwriters' Laboratories, Inc. 176

Fire warning
   Federal Fire Council 77

Fission product release
   DoD Nuclear Information and Analysis Center 67
   Radiation Chemistry Data Center 146

Flammability testing
   Bureau of Explosives 39
   Standards Information Services 166
   Underwriters' Laboratories, Inc. 176

Flammables
   American Petroleum Institute 20
   Committee on Fire Research 49
   Compressed Gas Association, Inc. 50
   Institute of Gas Technology 93
   Office of Standard Reference Data 138

Flammables disposal
   Manufacturing Chemists Association, Inc. 101

Flash point
   National Fire Protection Association 116

Flight computer
   Management Information Systems Directorate, STINFO Branch 100

Flight controls
   Management Information Systems Directorate, STINFO Branch 100
   Nondestructive Testing Information Analysis Center 132
   Numerical Control Society 136
   Project SETE 145

Flight paths and approaches
   American National Standards Institute 18

Flight recorders
   Electronic Industries Association 67
   National Aircraft Accident Investigation School 111
   National Transportation Safety Board 126
   Numerical Control Society 136
   Radio Technical Commission for Aeronautics 148

Flight simulation
   Electronic Industries Association 67
<table>
<thead>
<tr>
<th>Field</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight simulation (cont'd)</td>
<td>Midwest Research Institute 108</td>
</tr>
<tr>
<td></td>
<td>Society for Computer Simulation 161</td>
</tr>
<tr>
<td>Flight simulation facilities</td>
<td>Executive Sciences Institute, Inc. 74</td>
</tr>
<tr>
<td></td>
<td>Federal Aviation Administration 76</td>
</tr>
<tr>
<td></td>
<td>Institute of Environmental Sciences 92</td>
</tr>
<tr>
<td></td>
<td>Society for Computer Simulation 161</td>
</tr>
<tr>
<td>Flight simulation operations</td>
<td>Executive Sciences Institute, Inc. 74</td>
</tr>
<tr>
<td></td>
<td>Federal Aviation Administration 76</td>
</tr>
<tr>
<td></td>
<td>Institute of Environmental Sciences 92</td>
</tr>
<tr>
<td></td>
<td>Midwest Research Institute 108</td>
</tr>
<tr>
<td></td>
<td>Society for Computer Simulation 161</td>
</tr>
<tr>
<td>Fluids</td>
<td>Naval Air Propulsion Test Center 129</td>
</tr>
<tr>
<td>Foams</td>
<td>Society of the Plastics Industry, Inc. 163</td>
</tr>
<tr>
<td>Foundry practices</td>
<td>Metals Information Service 106</td>
</tr>
<tr>
<td>Freezing point</td>
<td>National Climatic Center 114</td>
</tr>
<tr>
<td>Fuel farm facilities/operations</td>
<td>American National Standards Institute 18</td>
</tr>
<tr>
<td></td>
<td>American Petroleum Institute 20</td>
</tr>
<tr>
<td></td>
<td>American Society of Civil Engineers 24</td>
</tr>
<tr>
<td></td>
<td>Compressed Gas Association, Inc. 50</td>
</tr>
<tr>
<td></td>
<td>Federal Aviation Administration 76</td>
</tr>
<tr>
<td></td>
<td>Institute of Gas Technology 93</td>
</tr>
<tr>
<td></td>
<td>Space and Missile Test Center 165</td>
</tr>
<tr>
<td>Fuel handling</td>
<td>National Fire Protection Association 116</td>
</tr>
<tr>
<td>Fuel storage</td>
<td>Combustion Institute 48</td>
</tr>
<tr>
<td></td>
<td>National Fire Protection Association 116</td>
</tr>
<tr>
<td>Fuel transportation</td>
<td>Bureau of Explosives 39</td>
</tr>
<tr>
<td></td>
<td>National Fire Protection Association 116</td>
</tr>
<tr>
<td>Fueling operations</td>
<td>Combustion Institute 48</td>
</tr>
<tr>
<td>Fuels</td>
<td>American Petroleum Institute 20</td>
</tr>
<tr>
<td></td>
<td>American Petroleum Institute 21</td>
</tr>
<tr>
<td></td>
<td>Chemical Propulsion Information Agency 43</td>
</tr>
<tr>
<td></td>
<td>Coating and Chemical Laboratory 47</td>
</tr>
<tr>
<td></td>
<td>Information Services Department 91</td>
</tr>
<tr>
<td></td>
<td>Naval Air Propulsion Test Center 129</td>
</tr>
<tr>
<td></td>
<td>Research Materials Information Center 153</td>
</tr>
<tr>
<td></td>
<td>Society of Automotive Engineers, Inc. 162</td>
</tr>
<tr>
<td>Furnaces</td>
<td>American Society of Safety Engineers 27</td>
</tr>
<tr>
<td>Galactic radiation</td>
<td>American Institute of Physics 15</td>
</tr>
<tr>
<td></td>
<td>Environmental Science Information Center 73</td>
</tr>
<tr>
<td>Galactic radiation (cont'd)</td>
<td>Microwave Spectral Data Center 146</td>
</tr>
<tr>
<td></td>
<td>Radiation Chemistry Data Center 146</td>
</tr>
<tr>
<td></td>
<td>X-Ray Attenuation Coefficient Information Center 181</td>
</tr>
<tr>
<td>Galvanic corrosion</td>
<td>Industrial Fasteners Institute 90</td>
</tr>
<tr>
<td></td>
<td>National Association of Corrosion Engineers 112</td>
</tr>
<tr>
<td>Geochemistry</td>
<td>Rare-Earth Information Center 149</td>
</tr>
<tr>
<td>Geology</td>
<td>Information Services Department 91</td>
</tr>
<tr>
<td>Geomagnetism</td>
<td>National Space Science Data Center 124</td>
</tr>
<tr>
<td>Geophysics</td>
<td>Information Services Department 91</td>
</tr>
<tr>
<td>Glass</td>
<td>Lead Industries Association, Inc. 97</td>
</tr>
<tr>
<td></td>
<td>Metals and Ceramics Information Center 105</td>
</tr>
<tr>
<td>Graphite</td>
<td>Aerospace Research Applications Center 6</td>
</tr>
<tr>
<td>Gravity</td>
<td>American Institute of Physics 15</td>
</tr>
<tr>
<td></td>
<td>Environmental Science Information Center 73</td>
</tr>
<tr>
<td>Ground recovery facilities</td>
<td>American Society of Civil Engineers 24</td>
</tr>
<tr>
<td></td>
<td>Naval Aerospace Recovery Facility 127</td>
</tr>
<tr>
<td>Ground recovery operations</td>
<td>Naval Aerospace Recovery Facility 127</td>
</tr>
<tr>
<td>Hand tools</td>
<td>Society of Automotive Engineers, Inc. 162</td>
</tr>
<tr>
<td>Handling procedures</td>
<td>Chlorine Institute 45</td>
</tr>
<tr>
<td></td>
<td>Compressed Gas Association, Inc. 50</td>
</tr>
<tr>
<td></td>
<td>Institute of Gas Technology 93</td>
</tr>
<tr>
<td></td>
<td>National Institute for Occupational Safety and Health 119</td>
</tr>
<tr>
<td></td>
<td>National LP-Gas Association 121</td>
</tr>
<tr>
<td>Hazard detection systems</td>
<td>American Conference of Governmental Industrial Hygienists 13</td>
</tr>
<tr>
<td></td>
<td>American Society of Safety Engineers 27</td>
</tr>
<tr>
<td></td>
<td>National Fire Protection Association 116</td>
</tr>
<tr>
<td></td>
<td>Nondestructive Testing Information Center 133</td>
</tr>
<tr>
<td>Hazardous characteristics</td>
<td>American Society of Lubrication Engineers 25</td>
</tr>
<tr>
<td></td>
<td>Chemical Propulsion Information Agency 43</td>
</tr>
<tr>
<td></td>
<td>Manufacturing Chemists Association, Inc. 101</td>
</tr>
<tr>
<td>Information Sources Listed by Areas of Expertise</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Hazardous materials</td>
<td></td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute 7</td>
<td></td>
</tr>
<tr>
<td>American Petroleum Institute 21</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Chlorine Institute 45</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>Goodyear Technical Information Center 83</td>
<td></td>
</tr>
<tr>
<td>Harry Diamond Laboratories 86</td>
<td></td>
</tr>
<tr>
<td>Institute of Gas Technology 93</td>
<td></td>
</tr>
<tr>
<td>Materials Research Center 102</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety and Health 119</td>
<td></td>
</tr>
<tr>
<td>National Safety Council 123</td>
<td></td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
<td></td>
</tr>
<tr>
<td>Hazardous materials classification</td>
<td></td>
</tr>
<tr>
<td>Bureau of Explosives 39</td>
<td></td>
</tr>
<tr>
<td>Materials Research Center 102</td>
<td></td>
</tr>
<tr>
<td>Hazardous materials disposal</td>
<td></td>
</tr>
<tr>
<td>Materials Research Center 102</td>
<td></td>
</tr>
<tr>
<td>Hazardous materials identification</td>
<td></td>
</tr>
<tr>
<td>Materials Research Center 102</td>
<td></td>
</tr>
<tr>
<td>Hazardous processes</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Hazards</td>
<td></td>
</tr>
<tr>
<td>Biosciences Information Service 37</td>
<td></td>
</tr>
<tr>
<td>Chlorine Institute 45</td>
<td></td>
</tr>
<tr>
<td>Head gear</td>
<td></td>
</tr>
<tr>
<td>Institute of Textile Technology 95</td>
<td></td>
</tr>
<tr>
<td>Health hazards</td>
<td></td>
</tr>
<tr>
<td>American Medical Association 17</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>American Welding Society 28</td>
<td></td>
</tr>
<tr>
<td>Defence and Civil Institute of Environmental Medicine 59</td>
<td></td>
</tr>
<tr>
<td>National Library of Medicine 120</td>
<td></td>
</tr>
<tr>
<td>Society of Automotive Engineers, Inc. 162</td>
<td></td>
</tr>
<tr>
<td>Heat dissipation</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>High strength steels</td>
<td></td>
</tr>
<tr>
<td>Metals and Ceramics Information Center 105</td>
<td></td>
</tr>
<tr>
<td>Highway safety</td>
<td></td>
</tr>
<tr>
<td>Bureau of Motor Carrier Safety 40</td>
<td></td>
</tr>
<tr>
<td>Highway Research Information Service 67</td>
<td></td>
</tr>
<tr>
<td>Highway Safety Research Institute 88</td>
<td></td>
</tr>
<tr>
<td>Pennsylvania Transportation and Traffic Safety Center 141</td>
<td></td>
</tr>
<tr>
<td>Human characteristics</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists 13</td>
<td></td>
</tr>
<tr>
<td>American Psychological Association 22</td>
<td></td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute 7</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency 43</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>National Fluid Power Association 118</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Human factors (cont'd)</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists 13</td>
<td></td>
</tr>
<tr>
<td>American Psychological Association 22</td>
<td></td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute 7</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency 43</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>National Fluid Power Association 118</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Human factors</td>
<td></td>
</tr>
<tr>
<td>American Nuclear Society 19</td>
<td></td>
</tr>
<tr>
<td>Armed Forces Institute of Pathology, Aerospace Branch 29</td>
<td></td>
</tr>
<tr>
<td>Biosciences Information Service 37</td>
<td></td>
</tr>
<tr>
<td>Flight Safety Foundation 78</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Human factors analysis</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists 13</td>
<td></td>
</tr>
<tr>
<td>American Psychological Association 22</td>
<td></td>
</tr>
<tr>
<td>Executive Sciences Institute, Inc. 74</td>
<td></td>
</tr>
<tr>
<td>Federal Aviation Administration 76</td>
<td></td>
</tr>
<tr>
<td>Georgia Information Dissemination Center 80</td>
<td></td>
</tr>
<tr>
<td>Highway Research Information Service 87</td>
<td></td>
</tr>
<tr>
<td>Highway Safety Research Institute 88</td>
<td></td>
</tr>
<tr>
<td>Human factors design</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists 13</td>
<td></td>
</tr>
<tr>
<td>American Psychological Association 22</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency 43</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>National Fluid Power Association 118</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Human functions</td>
<td></td>
</tr>
<tr>
<td>American Psychological Association 22</td>
<td></td>
</tr>
<tr>
<td>Federal Aviation Administration 76</td>
<td></td>
</tr>
<tr>
<td>Society for Computer Simulation 161</td>
<td></td>
</tr>
<tr>
<td>Hydraulic components</td>
<td></td>
</tr>
<tr>
<td>National Fluid Power Association 118</td>
<td></td>
</tr>
<tr>
<td>Hydraulic engineering</td>
<td></td>
</tr>
<tr>
<td>American Society of Civil Engineers 24</td>
<td></td>
</tr>
<tr>
<td>Regional Information and Communication Exchange 151</td>
<td></td>
</tr>
<tr>
<td>Hydraulic fluids</td>
<td></td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute 7</td>
<td></td>
</tr>
<tr>
<td>American Society of Safety Engineers 27</td>
<td></td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency 43</td>
<td></td>
</tr>
<tr>
<td>Combustion Institute 48</td>
<td></td>
</tr>
<tr>
<td>Coating and Chemical Laboratory 47</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>National Fluid Power Association 118</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Hydrogen</td>
<td></td>
</tr>
<tr>
<td>American Nuclear Society 19</td>
<td></td>
</tr>
<tr>
<td>Armed Forces Institute of Pathology, Aerospace Branch 29</td>
<td></td>
</tr>
<tr>
<td>Biosciences Information Service 37</td>
<td></td>
</tr>
<tr>
<td>Flight Safety Foundation 78</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety 214</td>
<td></td>
</tr>
<tr>
<td>Hygene</td>
<td></td>
</tr>
<tr>
<td>American Industrial Hygiene Association 14</td>
<td></td>
</tr>
<tr>
<td>American Medical Association 17</td>
<td></td>
</tr>
<tr>
<td>Chemical Propulsion Information Agency 43</td>
<td></td>
</tr>
<tr>
<td>INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Impact</td>
<td></td>
</tr>
<tr>
<td>Occupational Safety and Health Administration 137</td>
<td></td>
</tr>
<tr>
<td>SAR-ASSIST, Inc. 156</td>
<td></td>
</tr>
<tr>
<td>Incompatibilities</td>
<td></td>
</tr>
<tr>
<td>Industrial Fasteners Institute 90</td>
<td></td>
</tr>
<tr>
<td>Industrial hygiene</td>
<td></td>
</tr>
<tr>
<td>Lead Industries Association, Inc. 97</td>
<td></td>
</tr>
<tr>
<td>Society of the Plastics Industry, Inc. 163</td>
<td></td>
</tr>
<tr>
<td>Industrial processes</td>
<td></td>
</tr>
<tr>
<td>Air Force Machinability Data Center 10</td>
<td></td>
</tr>
<tr>
<td>American Institute of Steel Construction, Inc. 16</td>
<td></td>
</tr>
<tr>
<td>Institute of Textile Technology 95</td>
<td></td>
</tr>
<tr>
<td>Steel Founders' Society of America 167</td>
<td></td>
</tr>
<tr>
<td>Industrial safety</td>
<td></td>
</tr>
<tr>
<td>Air Force Machinability Data Center 10</td>
<td></td>
</tr>
<tr>
<td>American Conference of Governmental Industrial Hygienists 13</td>
<td></td>
</tr>
<tr>
<td>American Society for Nondestructive Testing 23</td>
<td></td>
</tr>
<tr>
<td>Executive Sciences Institute, Inc. 74</td>
<td></td>
</tr>
<tr>
<td>Harry Diamond Laboratories 86</td>
<td></td>
</tr>
<tr>
<td>Industrial Fasteners Institute 90</td>
<td></td>
</tr>
<tr>
<td>Institute of Textile Technology 95</td>
<td></td>
</tr>
<tr>
<td>Metal Powder Industries Federation 104</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>Society of Automotive Engineers, Inc. 162</td>
<td></td>
</tr>
<tr>
<td>Steel Founders' Society of America 167</td>
<td></td>
</tr>
<tr>
<td>Industrial safety and health</td>
<td></td>
</tr>
<tr>
<td>American Industrial Hygiene Association 14</td>
<td></td>
</tr>
<tr>
<td>American Medical Association 17</td>
<td></td>
</tr>
<tr>
<td>American Welding Society 28</td>
<td></td>
</tr>
<tr>
<td>Copper Data Center 54</td>
<td></td>
</tr>
<tr>
<td>Industrial Fasteners Institute 90</td>
<td></td>
</tr>
<tr>
<td>Southwest Research Institute 164</td>
<td></td>
</tr>
<tr>
<td>Tin Research Institute, Inc. 173</td>
<td></td>
</tr>
<tr>
<td>Information analysis</td>
<td></td>
</tr>
<tr>
<td>National Space Science Data Center 124</td>
<td></td>
</tr>
<tr>
<td>Information resources</td>
<td></td>
</tr>
<tr>
<td>US Army Research Office 178</td>
<td></td>
</tr>
<tr>
<td>Infrared technology</td>
<td></td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
<td></td>
</tr>
<tr>
<td>Nondestructive Testing Information Center 133</td>
<td></td>
</tr>
<tr>
<td>Initiator materials</td>
<td></td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
<td></td>
</tr>
<tr>
<td>Initiators safety</td>
<td></td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
<td></td>
</tr>
<tr>
<td>Initiators technology</td>
<td></td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
<td></td>
</tr>
<tr>
<td>Inorganic chemistry</td>
<td></td>
</tr>
<tr>
<td>Chemical Kinetics Data Center 42</td>
<td></td>
</tr>
<tr>
<td>Rare-Earth Information Center 149</td>
<td></td>
</tr>
<tr>
<td>Inspection</td>
<td></td>
</tr>
<tr>
<td>Navy Maintenance and Material Management System 130</td>
<td></td>
</tr>
<tr>
<td>Nondestructive Testing Information Center 133</td>
<td></td>
</tr>
<tr>
<td>Instrumentation</td>
<td></td>
</tr>
<tr>
<td>General Electric Space Division 79</td>
<td></td>
</tr>
<tr>
<td>Instrument Society of America 96</td>
<td></td>
</tr>
<tr>
<td>Nondestructive Testing Information Analysis Center 132</td>
<td></td>
</tr>
<tr>
<td>Instruments</td>
<td></td>
</tr>
<tr>
<td>Electromagnetic Metrology Information Center 56</td>
<td></td>
</tr>
<tr>
<td>Electronic Industries Association 67</td>
<td></td>
</tr>
<tr>
<td>Instrument Society of America 96</td>
<td></td>
</tr>
<tr>
<td>Midwest Research Institute 108</td>
<td></td>
</tr>
<tr>
<td>Project SITE 145</td>
<td></td>
</tr>
<tr>
<td>Reliability Analysis Center 152</td>
<td></td>
</tr>
<tr>
<td>Interplanetary gases</td>
<td></td>
</tr>
<tr>
<td>American Institute of Physics 15</td>
<td></td>
</tr>
<tr>
<td>Environmental Science Information Center 73</td>
<td></td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
<td></td>
</tr>
<tr>
<td>Investigators</td>
<td></td>
</tr>
<tr>
<td>US Army Research Office 178</td>
<td></td>
</tr>
<tr>
<td>Ionizing radiation</td>
<td></td>
</tr>
<tr>
<td>AEC Technical Information Center 3</td>
<td></td>
</tr>
<tr>
<td>Aerospace and Environmental Medicine Informa-</td>
<td></td>
</tr>
<tr>
<td>tion System 4</td>
<td></td>
</tr>
<tr>
<td>American Institute of Physics 15</td>
<td></td>
</tr>
<tr>
<td>American Nuclear Society 19</td>
<td></td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute 30</td>
<td></td>
</tr>
<tr>
<td>Army Ballistic Research Laboratories 31</td>
<td></td>
</tr>
<tr>
<td>Atomic and Molecular Ionization Processes Data Center 33</td>
<td></td>
</tr>
<tr>
<td>Atomic Transition Probabilities Data Center 35</td>
<td></td>
</tr>
<tr>
<td>Biosciences Information Service 37</td>
<td></td>
</tr>
<tr>
<td>Bureau of Radiological Health 41</td>
<td></td>
</tr>
<tr>
<td>Defence and Civil Institute of Environmental Medicine 59</td>
<td></td>
</tr>
<tr>
<td>Harry Diamond Laboratories 86</td>
<td></td>
</tr>
<tr>
<td>Management Information Systems Director-ate, STINFO Branch 100</td>
<td></td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
<td></td>
</tr>
<tr>
<td>National Council on Radiation Protection and Measurements 115</td>
<td></td>
</tr>
<tr>
<td>National Institute for Occupational Safety and Health 119</td>
<td></td>
</tr>
<tr>
<td>National Space Science Data Center 124</td>
<td></td>
</tr>
<tr>
<td>Nuclear Safety Information Center 135</td>
<td></td>
</tr>
<tr>
<td>Photonuclear Data Center 142</td>
<td></td>
</tr>
<tr>
<td>Radiation Chemistry Data Center 146</td>
<td></td>
</tr>
<tr>
<td>Radiation Shielding Information Center 147</td>
<td></td>
</tr>
<tr>
<td>US Army Environmental Hygiene Agency 177</td>
<td></td>
</tr>
<tr>
<td>Iron</td>
<td></td>
</tr>
<tr>
<td>Army Materials and Mechanics Research Center 32</td>
<td></td>
</tr>
<tr>
<td>Iron alloys</td>
<td></td>
</tr>
<tr>
<td>Army Materials and Mechanics Research Center 32</td>
<td></td>
</tr>
<tr>
<td>Irradiation effects</td>
<td></td>
</tr>
<tr>
<td>Metals Information Service 106</td>
<td></td>
</tr>
</tbody>
</table>
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

J

Jet propulsion fuels
Chemical Propulsion Information Agency 43
Society of Automotive Engineers, Inc. 162

Job performance aids
American Psychological Association 22

Joining methods
American Institute of Steel Construction, Inc. 16
American National Standards Institute 18
American Welding Society 28
Arny Materials and Mechanics Research Center 32
Georgia Information Dissemination Center 80
Industrial Fasteners Institute 90
Lead Industries Association, Inc. 97
Mechanical Properties Data Center 103
Metals Information Service 106

Joints
Copper Data Center 54

K

Kinetics
Chemical Kinetics Data Center 42

L

Laminates
Society of the Plastics Industry, Inc. 163

Land development
Environmental Information Analysis Center 71

Landing aids
American Society of Civil Engineers 24

Lasers
Electronic Industries Association 67
Project SETE 145

Lattice defects
Metals Information Service 106

Launch base operations
Aerospace Safety Research and Data Institute 7
Project SETE 145
Southwest Research Institute 164

Launch complexes
Space and Missile Test Center 165

Launch operations
American Petroleum Institute 20
Combustion Institute 48
Space and Missile Test Center 165

Lead
Lead Industries Association, Inc. 97

Life sciences
American Medical Association 17

Life support
Biosciences Information Service 37
Diver Equipment Information Center 64
SAM-ASSIST, Inc. 156

Life support design
American Conference of Governmental Industrial Hygienists 13
Diver Equipment Information Center 64
Environmental Information Division 72
Georgia Information Dissemination Center 80
Naval Aerospace Recovery Facility 127

Life support systems
Biosciences Information Service 37
Defence and Civil Institute of Environmental Medicine 59
Diver Equipment Information Center 64
Environmental Information Division 72
National Institute for Occupational Safety and Health 119
Pittsburgh Mining and Safety Research Center 143
Power Information Center 144

Lightning
Factory Mutual Research Corp. 75
National Climatic Center 114

Lightning strikes
National Climatic Center 114

Liquefied gases
American Petroleum Institute 20
Chlorine Institute 45
Compressed Gas Association, Inc. 50
National LP-Gas Association 121
Office of Standard Reference Data 138

Liquid propellants
Chemical Propulsion Information Agency 43
Cryogenic Data Center 55

Low temperatures
National Climatic Center 114

Lubricants
Aerospace Research Applications Center 6
Aerospace Safety Research and Data Institute 7
American Petroleum Institute 20
American Society of Lubrication Engineers 25
Chemical Propulsion Information Agency 43
Coating and Chemical Laboratory 47
Midwest Research Institute 108
National Fluid Power Association 118
Naval Air Propulsion Test Center 129
Research Materials Information Center 153
Society of Automotive Engineers, Inc. 162
Southwest Research Institute 164

M

Machinery
Air Force Machinability Data Center 10
Numerical Control Society 136
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Machinery safety
American Society of Safety Engineers 27
Copper Data Center 54
Society of Automotive Engineers, Inc. 162
Underwriters' Laboratories, Inc. 176

Machining
Air Force Machinability Data Center 10
Metals Information Service 106
Numerical Control Society 136

Magnesium
Air Force Machinability Data Center 10
Alloy Data Center 12
Mechanical Properties Data Center 103
Metal Powder Industries Federation 104
Metals and Ceramics Information Center 105

Magnetic fields
Controlled Fusion Atomic Data Center 52

Magnetic properties
Alloy Data Center 12

Maintainability
Electronic Industries Association 67
Government-Industry Data Exchange Program 84
Instrument Society of America 96
National Space Science Data Center 124
Naval Maintenance and Material Management System 130
Reliability Analysis Center 152
Society of Automotive Engineers, Inc. 162
Space and Missle Test Center 165

Maintainability assurance
Government-Industry Data Exchange Program 84

Maintenance facilities
American Society of Civil Engineers 24
Naval Maintenance and Material Management System 130
Space and Missile Test Center 165

Maintenance operations
Naval Maintenance and Material Management System 130

Man-machine hazards
Aerospace Safety Research and Data Institute 7
American Society of Safety Engineers 27
Biosciences Information Service 37
Civil Aeromedical Institute 46
Flight Safety Foundation 78
Georgia Information Dissemination Center 80
Guggenheim Center for Aerospace Health and Safety 85
National Institute for Occupational Safety and Health 119
Southwest Research Institute 164

Man-made debris
Environmental Science Information Center 73

Material processes engineering
Goodyear Technical Information Center 83
Mechanical Properties Data Center 103

Material processes engineering (cont'd)
Regional Information and Communication Exchange 151

Material properties
Army Materials and Mechanics Research Center 32
Mechanical Properties Data Center 103

Material removal
Air Force Machinability Data Center 10

Material types
Chemical Propulsion Information Agency 43

Materials
Air Force Machinability Data Center 10
American Nuclear Society 19
Institute of Textile Technology 95
Naval Air Propulsion Test Center 129
Office of Standard Reference Materials 139
Shock Wave Data Center 159
Society of the Plastics Industry, Inc. 163

Materials evaluation
Army Materials and Mechanics Research Center 32
Highway Research Information Service 87
Nondestructive Testing Information Center 133

Materials standardization
American National Standards Institute 18
Office of Standard Reference Materials 139

Mathematical sciences
Aerospace Materials Information Center 5
Aerospace Research Applications Center 6
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
Naval Air Development Center 128
New England Research Application Center 217
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Mathematical sciences (cont'd)
- North Carolina Science and Technology Research Center 134
- Redstone Scientific Information Center 150
- Rockwell Technical Information Processing System 154
- Smithsonian Science Information Exchange 160
- Technology Application Center 169
- Western Research Application Center 180

Mechanical engineering
- Army Materials and Mechanics Research Center 32
- Regional Information and Communication Exchange 151
- Science Information Services 157

Mechanical properties
- Air Force Flight Dynamics Laboratory 9
- Air Force Machinability Data Center 10
- American National Standards Institute 10
- American Welding Society 28
- Georgia Information Dissemination Center 80
- Industrial Fasteners Institute 90
- Materials Research Center 102
- Mechanical Properties Data Center 103
- Metal Powder Industries Federation 104

Mechanics
- Army Materials and Mechanics Research Center 32

Mechanics of structural failure
- Aerospace Safety Research and Data Institute 7
- Air Force Flight Dynamics Laboratory 9
- American Society for Nondestructive Testing 23
- American Welding Society 28
- Army Materials and Mechanics Research Center 32
- Factory Mutual Research Corp. 75
- Highway Research Information Service 87
- Mechanical Properties Data Center 103

Medical sciences
- Armed Forces Institute of Pathology, Aerospace Branch 29
- National Library of Medicine 120

Metal powders
- Air Force Machinability Data Center 10
- Alloy Data Center 12
- Lead Industries Association, Inc. 97
- Metal Powder Industries Federation 104
- Metals and Ceramics Information Center 105
- Tin Research Institute, Inc. 173

Metallic coatings
- Metals Information Service 106
- Tin Research Institute, Inc. 173

Metallurgy
- General Electric Space Division 79
- Lead Industries Association, Inc. 97
- Rare-Earth Information Center 149
- Tin Research Institute, Inc. 173

Metals
- Diffusion in Metals Data Center 63

Metals and alloys
- Army Materials and Mechanics Research Center 32
- Diffusion in Metals Data Center 63
- Tin Research Institute, Inc. 173

Meteoroids
- American Institute of Physics 15
- Environmental Science Information Center 73

Meteorological considerations
- National Climatic Center 114
- SAB-ASSIST, Inc. 156

Meteorology
- National Climatic Center 114

Methane
- American Petroleum Institute 20
- Institute of Gas Technology 93

Microwave theory
- Microwave Spectral Data Center 107
- Project SETE 145

Mill process
- Numerical Control Society 136

Mining
- Copper Data Center 54
- Pittsburgh Mining and Safety Research Center 143
- Rare-Earth Information Center 149

Missiles
- DoD Nuclear Information and Analysis Center 61

Mission abort practices
- American Conference of Governmental Industrial Hygienists 13

Mission control facilities
- Space and Missile Test Center 165

Molecular structure
- Atomic and Molecular Ionization Processes Data Center 33
- Controlled Fusion Atomic Data Center 52
- Diatomic Molecule Spectra and Energy Levels Data Center 62

Monel alloys
- Copper Data Center 54

Monitoring
- Instrument Society of America 96

Munitions
- Bureau of Explosives 39
## INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

<table>
<thead>
<tr>
<th>Munitions (cont'd)</th>
<th>Nuclear engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
<td>Controlled Fusion Atomic Data Center 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Navigation</th>
<th>Nuclear facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Information Systems Directorate, STINFO Branch 100</td>
<td>Controlled Fusion Atomic Data Center 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Navigation equipment</th>
<th>Nuclear fuels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Information Systems Directorate, STINFO Branch 100</td>
<td>American Nuclear Society 19</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics 148</td>
<td>Controlled Fusion Atomic Data Center 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nuclear</th>
<th>Nondestructive testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>facilities</td>
<td>American Institute of Physics 15</td>
</tr>
<tr>
<td>power</td>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td>plant</td>
<td>DOD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>safety</td>
<td>Environmental Information Analysis Center 71</td>
</tr>
<tr>
<td>design</td>
<td>Factory Mutual Research Corp. 75</td>
</tr>
<tr>
<td>Nuclear</td>
<td>Harry Diamond Laboratories 86</td>
</tr>
<tr>
<td>power plant</td>
<td>US Army Environmental Hygiene Agency 177</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Navigation systems</th>
<th>Nuclear power plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Industries Association 67</td>
<td>Nuclear Safety Information Center 135</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics 148</td>
<td>Environmental Information Analysis Center 71</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nickel</th>
<th>Nuclear radiation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Force Machinability Data Center 10</td>
<td>ABC Technical Information Center 3</td>
</tr>
<tr>
<td>Alloy Data Center 12</td>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td>Mechanical Properties Data Center 103</td>
<td>DOD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>Steel Founders' Society of America 167</td>
<td>Environmental Information Analysis Center 71</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitrogen</th>
<th>Nuclear reactor applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Petroleum Institute 20</td>
<td>Controlled Fusion Atomic Data Center 52</td>
</tr>
<tr>
<td>Cryogenic Data Center 55</td>
<td>Power Information Center 144</td>
</tr>
<tr>
<td>Institute of Gas Technology 93</td>
<td></td>
</tr>
</tbody>
</table>
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Nuclear safety (cont'd)
Nuclear Safety Information Center 135
Southwest Research Institute 164

Nuclear sciences
Aerospace Materials Information Center 5
Aerospace Research Applications Center 6
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169

Numerical control
Numerical Control Society 136

Nutrition
Environmental Information Division 72

Oceanography
Aerospace Materials Information Center 5
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Lockheed Technical Information Center 98
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169

Oil
Information Services Department 91

Oils
American Petroleum Institute 21

Operational mode
Air Force Flight Dynamics Laboratory 9
Army Ballistic Research Laboratories 31
Flight Safety Foundation 78

Operations research
US Army Research Office 178

Organic chemistry
American Petroleum Institute 21
Chemical Kinetics Data Center 42
Science Information Services 157
Thermodynamics Research Center 171

Oxidation
National Association of Corrosion Engineers 112
Office of Standard Reference Data 138

Oxidation inhibitors
National Association of Corrosion Engineers 112

Oxidation stability
National Association of Corrosion Engineers 112

Oxygen
Cryogenic Data Center 55
National Climatic Center 114

P

Packaging
Copper Data Center 54

Performance data
Government-Industry Data Exchange Program 84

Personal protection equipment
Radiation Shielding Information Center 147

Personal protective clothing
National Institute for Occupational Safety and Health 119

Personal protective equipment
Aerospace and Environmental Medicine Information System 4
American Conference of Governmental Industrial Hygienists 13
American Welding Society 28
Armed Forces Radiobiology Research Institute 30
Defence and Civil Institute of Environmental Medicine 59
Diver Equipment Information Center 64
Electromagnetic Metrology Information Center 66
Environmental Information Division 72
Global Engineering Documentation Service, Inc. 82
Institute of Textile Technology 95
Pennsylvania Transportation and Traffic Safety Center 141
SAR-ASSIST, Inc. 156
Space and Missile Test Center 165
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Personal protective equipment (cont'd)
US Army Environmental Hygiene Agency 177
X-Ray Attenuation Coefficient Information Center 181

Personnel certification
Civil Aeromedical Institute 46
Executive Sciences Institute, Inc. 74
Pennsylvania Transportation and Traffic Safety Center 141

Personnel selection
Air Force Flight Dynamics Laboratory 9
American Psychological Association 22
Executive Sciences Institute, Inc. 74
Federal Aviation Administration 76
Georgia Information Dissemination Center 80
Pennsylvania Transportation and Traffic Safety Center 141

Personnel subsystems
Aerospace and Environmental Medicine Information System 4

Personnel training
Air Force Flight Dynamics Laboratory 9
American Psychological Association 22
American Society of Safety Engineers 27
Executive Sciences Institute, Inc. 74
Federal Aviation Administration 76
 Georgia Information Dissemination Center 80
Pennsylvania Transportation and Traffic Safety Center 141

Petroleum
American Petroleum Institute 21
Information Services Department 91

Physical characteristics
American Society of Lubrication Engineers 25
Chemical Propulsion Information Agency 43
Cryogenic Data Center 55
Office of Standard Reference Data 138
Thermodynamics Research Center 171

Physical chemistry
Atomic Energy Levels Data Center 34

Physical metallurgy
Steel Founders' Society of America 167

Physical properties
Air Force Flight Dynamics Laboratory 9
American Institute of Physics 15
American Welding Society 28
Chlorine Institute 45
Georgia Information Dissemination Center 80
Manufacturing Chemists Association, Inc. 101
Materials Research Center 102
Metal Powder Industries Federation 104
Rare-Earth Information Center 149
Standards Information Services 166
Thermodynamics Research Center 171

Physical sciences
Aerospace Materials Information Center 5

Physical sciences (cont'd)
Aerospace Research Applications Center 6
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Science Information Services 157
Smithsonian Science Information Exchange 160
Technology Application Center 169
Western Research Application Center 180

Physics
Aerospace Materials Information Center 5
Aerospace Research Applications Center 6
American Petroleum Institute 21
American Society of Mechanical Engineers 26
Atomic and Molecular Ionization Processes Data Center 33
Atomic Energy Levels Data Center 34
Computer Search Center 51
Controlled Fusion Atomic Data Center 52
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
Lockheed Technical Information Center 98
Low-Temperature Specific Heats Data Center 99
Materials Research Center 102
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
Naval Air Development Center 128
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Shock Wave Data Center 159
Smithsonian Science Information Exchange 160
Technology Application Center 169
Western Research Application Center 180

Physiological effects
Defence and Civil Institute of Environmental Medicine 59
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Physiological effects (cont'd)
Environmental Information Division 72
SAR-ASSIST, Inc. 156

Physiological stress
American Medical Association 17
Diver Equipment Information Center 64
Guggenheim Center for Aerospace Health and Safety 85
Occupational Safety and Health Administration 137
SAR-ASSIST, Inc. 156

Physiology
Aerospace and Environmental Medicine Information System 4
American Medical Association 17
Armed Forces Institute of Pathology, Aerospace Branch 29
Diver Equipment Information Center 64
Toxicology Information Program 174
US Army Environmental Hygiene Agency 177

Plasma physics
Controlled Fusion Atomic Data Center 52
Data Center on Atomic Line Shapes and Shifts 58

Plastics
Air Force Machinability Data Center 10
Goodyear Technical Information Center 83
Science Information Services 157
Society of the Plastics Industry, Inc. 163

Pneumatic components
National Fluid Power Association 118

Polymers
Goodyear Technical Information Center 83
Science Information Services 157

Potash
Lead Industries Association, Inc. 97

Powder metallurgy
Metals Information Service 106
Science Information Services 157

Power sources
American Nuclear Society 19
Battery Information Index and Energy Storage Information Center 36
Controlled Fusion Atomic Data Center 52
Power Information Center 144

Precious metals
Air Force Machinability Data Center 10
Alloy Data Center 12

Pressure
American Society of Safety Engineers 27
Diver Equipment Information Center 64

Pressure seals
Army Ballistic Research Laboratories 31

Pressure waves
Army Ballistic Research Laboratories 31
Institute of Environmental Sciences 92

Primary fabrication
Metal Powder Industries Federation 104

Production limitations
American Welding Society 28
Georgia Information Dissemination Center 80
Industrial Fasteners Institute 90
Materials Research Center 102
Mechanical Properties Data Center 103
Metal Powder Industries Federation 104

Propellants
Chemical Propulsion Information Agency 43
National Fluid Power Association 118
Research Materials Information Center 153
Safety of Explosive Ordnance Databank 155

Propellants and fuels
Aerospace Safety Research and Data Institute 7
American Petroleum Institute 21
American Society of Civil Engineers 24
Combustion Institute 48
Midwest Research Institute 108
Power Information Center 144
Safety of Explosive Ordnance Databank 155
Southwest Research Institute 164

Property data
Government-Industry Data Exchange Program 84

Propulsion systems
Chemical Propulsion Information Agency 43
Flight Safety Foundation 78
Space and Missile Test Center 165

Propulsion types
Chemical Propulsion Information Agency 43

Protective clothing
American Conference of Governmental Industrial Hygienists 13
American Welding Society 28
Armed Forces Radiobiology Research Institute 30
Bureau of Radiological Health 41
Diver Equipment Information Center 64
Electromagnetic Metrology Information Center 66
Institute of Textile Technology 95
Space and Missile Test Center 165
X-Ray Attenuation Coefficient Information Center 181

Psychological stress
Diver Equipment Information Center 64
Guggenheim Center for Aerospace Health and Safety 85
Occupational Safety and Health Administration 137
Pennsylvania Transportation and Traffic Safety Center 141
SAR-ASSIST, Inc. 156

Psychology
Aerospace and Environmental Medicine Information System 4
American Psychological Association 22
Armed Forces Institute of Pathology, Aerospace Branch 29
Diver Equipment Information Center 64
Pennsylvania Transportation and Traffic Safety Center 141
<table>
<thead>
<tr>
<th>INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrotechnic materials</td>
</tr>
<tr>
<td>Combustion Institute 48</td>
</tr>
<tr>
<td>Harry Diamond Laboratories 86</td>
</tr>
<tr>
<td>Nondestructive Testing Information Analysis Center 132</td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
</tr>
<tr>
<td>Pyrotechnic safety</td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
</tr>
<tr>
<td>Pyrotechnic technology</td>
</tr>
<tr>
<td>Safety of Explosive Ordnance Databank 155</td>
</tr>
<tr>
<td>Pyrotechnics</td>
</tr>
<tr>
<td>Army Ballistic Research Laboratories 31</td>
</tr>
<tr>
<td>Nondestructive Testing Information Analysis Center 132</td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
</tr>
<tr>
<td>Pyrotechnics safety</td>
</tr>
<tr>
<td>Aerospace Safety Research and Data Institute 7</td>
</tr>
<tr>
<td>Quality assurance</td>
</tr>
<tr>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td>Quality certification</td>
</tr>
<tr>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td>Quality control</td>
</tr>
<tr>
<td>Electronic Industries Association 67</td>
</tr>
<tr>
<td>Executive Sciences Institute, Inc. 74</td>
</tr>
<tr>
<td>Global Engineering Documentation Service, Inc. 82</td>
</tr>
<tr>
<td>Government-Industry Data Exchange Program 84</td>
</tr>
<tr>
<td>Harry Diamond Laboratories 86</td>
</tr>
<tr>
<td>Nondestructive Testing Information Analysis Center 132</td>
</tr>
<tr>
<td>Project SETE 145</td>
</tr>
<tr>
<td>Reliability Analysis Center 152</td>
</tr>
<tr>
<td>Southwest Research Institute 164</td>
</tr>
<tr>
<td>Standards Information Services 166</td>
</tr>
<tr>
<td>Quantity/distance criteria</td>
</tr>
<tr>
<td>Compressed Gas Association, Inc. 50</td>
</tr>
<tr>
<td>National Fire Protection Association 116</td>
</tr>
<tr>
<td>Radar detection</td>
</tr>
<tr>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Radar navigation</td>
</tr>
<tr>
<td>Electromagnetic Metrology Information Center 66</td>
</tr>
<tr>
<td>Electronic Industries Association 67</td>
</tr>
<tr>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td>Radio Technical Commission for Aeronautics 148</td>
</tr>
<tr>
<td>System Safety Office, Electronic Systems Division 168</td>
</tr>
<tr>
<td>Radiation</td>
</tr>
<tr>
<td>American Institute of Physics 15</td>
</tr>
<tr>
<td>Radiation (cont'd)</td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute 30</td>
</tr>
<tr>
<td>Environment Information Center, Inc. 70</td>
</tr>
<tr>
<td>Goodyear Technical Information Center 83</td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
</tr>
<tr>
<td>National Council on Radiation Protection and Measureements 115</td>
</tr>
<tr>
<td>Nuclear Safety Information Center 135</td>
</tr>
<tr>
<td>Project SETE 145</td>
</tr>
<tr>
<td>Radiation Shielding Information Center 147</td>
</tr>
<tr>
<td>Radiation belts</td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute 30</td>
</tr>
<tr>
<td>Environmental Science Information Center 73</td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
</tr>
<tr>
<td>Radiation Chemistry Data Center 146</td>
</tr>
<tr>
<td>Radiation Shielding Information Center 147</td>
</tr>
<tr>
<td>X-Ray Attenuation Coefficient Information Center 181</td>
</tr>
<tr>
<td>Radiation damage</td>
</tr>
<tr>
<td>DoD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>Radiation detection</td>
</tr>
<tr>
<td>AEC Technical Information Center 3</td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute 30</td>
</tr>
<tr>
<td>Atomic Transition Probabilities Data Center 35</td>
</tr>
<tr>
<td>Bureau of Radiological Health 41</td>
</tr>
<tr>
<td>DoD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>Factory Mutual Research Corp. 75</td>
</tr>
<tr>
<td>Management Information Systems Directorate, STINFO Branch 100</td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
</tr>
<tr>
<td>National Institute for Occupational Safety and Health 119</td>
</tr>
<tr>
<td>Nuclear Safety Information Center 135</td>
</tr>
<tr>
<td>Office of Telecommunications 140</td>
</tr>
<tr>
<td>Radiation Chemistry Data Center 146</td>
</tr>
<tr>
<td>Radiation Shielding Information Center 147</td>
</tr>
<tr>
<td>Underwriters' Laboratories, Inc. 176</td>
</tr>
<tr>
<td>US Army Environmental Hygiene Agency 177</td>
</tr>
<tr>
<td>X-Ray Attenuation Coefficient Information Center 181</td>
</tr>
<tr>
<td>Radiation detectors</td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
</tr>
<tr>
<td>Radiation effects</td>
</tr>
<tr>
<td>AEC Technical Information Center 3</td>
</tr>
<tr>
<td>American Nuclear Society 19</td>
</tr>
<tr>
<td>DoD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>Office of Standard Reference Data 138</td>
</tr>
<tr>
<td>Radiation Shielding Information Center 147</td>
</tr>
<tr>
<td>Radiation monitoring</td>
</tr>
<tr>
<td>Armed Forces Radiobiology Research Institute 30</td>
</tr>
<tr>
<td>DoD Nuclear Information and Analysis Center 61</td>
</tr>
<tr>
<td>Factory Mutual Research Corp. 75</td>
</tr>
<tr>
<td>Microwave Spectral Data Center 107</td>
</tr>
</tbody>
</table>

223
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Radiation monitoring (cont'd)
National Institute for Occupational Safety and Health 119
Office of Telecommunications 140

Radiation physiological effects
American Medical Association 17
Armed Forces Institute of Pathology, Aerospace Branch 29
Armed Forces Radiobiology Research Institute 30
Atomic Transition Probabilities Data Center 35
Defence and Civil Institute of Environmental Medicine 59
Management Information Systems Directorate, STINFO Branch 100
Microwave Spectral Data Center 107
National Council on Radiation Protection and Measurements 115
Office of Telecommunications 140
Radiation Chemistry Data Center 146

Radiation protection
AEC Technical Information Center 3
American Nuclear Society 19
Atomic Transition Probabilities Data Center 35
Bureau of Radiological Health 41
DoD Nuclear Information and Analysis Center 61
Electromagnetic Metrology Information Center 66
Institute of Textile Technology 95
Management Information Systems Directorate, STINFO Branch 100
Microwave Spectral Data Center 107
National Council on Radiation Protection and Measurements 115
Office of Telecommunications 140
Radiation Chemistry Data Center 146
Underwriters' Laboratories, Inc. 176
X-Ray Attenuation Coefficient Information Center 181

Radiation resistance
AEC Technical Information Center 3
Nuclear Safety Information Center 135
Radiation Shielding Information Center 147

Radiation shielding
American Conference of Governmental Industrial Hygienists 13
DoD Nuclear Information and Analysis Center 61
General Electric Space Division 79
Microwave Spectral Data Center 107
Radiation Shielding Information Center 147

Radiation tolerance levels
AEC Technical Information Center 3
American Nuclear Society 19
Bureau of Radiological Health 41
Environmental Information Analysis Center 71
Radiation Shielding Information Center 147

Radio communication systems
Electromagnetic Metrology Information Center 66
Electronic Industries Association 67
Office of Telecommunications 140
Radio Technical Commission for Aeronautics 148
System Safety Office, Electronic Systems Division 169

Radioactive decontamination
AEC Technical Information Center 3
Air Pollution Technical Information Center 11
American Nuclear Society 19
DoD Nuclear Information and Analysis Center 61
Environment Information Center, Inc. 70
Factory Mutual Research Corp. 75
National Council on Radiation Protection and Measurements 115
National Institute for Occupational Safety and Health 119
X-Ray Attenuation Coefficient Information Center 181

Radioactive spills
Air Pollution Technical Information Center 11
Environment Information Center, Inc. 70
Factory Mutual Research Corp. 75
National Council on Radiation Protection and Measurements 115
National Institute for Occupational Safety and Health 119
US Army Environmental Hygiene Agency 177

Radioactive wastes
AEC Technical Information Center 3
Air Pollution Technical Information Center 11
Environment Information Center, Inc. 70
Institute of Environmental Sciences 92
National Council on Radiation Protection and Measurements 115
Nuclear Safety Information Center 135

Radioisotopes applications
Armed Forces Radiobiology Research Institute 30
National Council on Radiation Protection and Measurements 115
Nondestructive Testing Information Center 133
Radiation Chemistry Data Center 146
Research Materials Information Center 153

Range operations
Space and Missile Test Center 165

Rare-earth information
Rare-Earth Information Center 149

Reactor technology
American Nuclear Society 19

Reactors
Controlled Fusion Atomic Data Center 52
X-Ray Attenuation Coefficient Information Center 181

Reciprocating engines
Society of Automotive Engineers, Inc. 162

224
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Recovery
SAR-ASSIST, Inc. 156

Recovery systems
Naval Aerospace Recovery Facility 127

Reentry
Naval Aerospace Recovery Facility 127

Refining
American Petroleum Institute 21
Metals Information Service 106

Refractory metals
Metals and Ceramics Information Center 105

Regulations
Flight Safety Foundation 78
National Aircraft Accident Investigation School 111
National Transportation Safety Board 126
Standards Information Services 166

Reliability
Electronic Industries Association 67
Executive Sciences Institute, Inc. 74
Government-Industry Data Exchange Program 84
Navy Maintenance and Material Management System 130
Nondestructive Testing Information Analysis Center 132
Project SETE 145
Reliability Analysis Center 152
Shock and Vibration Information Center 158
Southwest Research Institute 164
Space and Missile Test Center 165

Reliability analysis
Government-Industry Data Exchange Program 84
Shock and Vibration Information Center 158

Reliability assurance
Government-Industry Data Exchange Program 84

Rescue
SAR-ASSIST, Inc. 156

Research
US Army Research Office 178

Research and development
US Army Research Office 178

Respiratory equipment
Diver Equipment Information Center 64

Restraint systems
Highway Research Information Service 87
Occupational Safety and Health Administration 137
Pennsylvania Transportation and Traffic Safety Center 141

Restrains
Highway Safety Research Institute 88
Society of Automotive Engineers, Inc. 162

Rubber
Goodyear Technical Information Center 83

Safety
Compressed Gas Association, Inc. 50

Safety analysis
Aerospace Safety Research and Data Institute 7
American Industrial Hygiene Association 14
Bureau of Aviation Safety 38
Bureau of Motor Carrier Safety 40
Factory Mutual Research Corp. 75
Government-Industry Data Exchange Program 84
Highway Research Information Service 87
National Institute for Occupational Safety and Health 119
National Safety Council 123
Occupational Safety and Health Administration 137
Pennsylvania Transportation and Traffic Safety Center 141
System Safety Office, Electronic Systems Division 168
Transportation Safety Institute 175

Safety analysis of equipment
American Society of Civil Engineers 24
American Society of Safety Engineers 27
Global Engineering Documentation Service, Inc. 82
Government-Industry Data Exchange Program 84
Underwriters' Laboratories, Inc. 176

Safety data sheets
Chlorine Institute 45
National Safety Council 123

Safety engineering
American Petroleum Institute 21
American Society of Safety Engineers 27
Bureau of Aviation Safety 38
Electronic Industries Association 67
Executive Sciences Institute, Inc. 74
Federal Aviation Administration 76
Highway Safety Research Institute 88
Midwest Research Institute 108
National Institute for Occupational Safety and Health 119
Pennsylvania Transportation and Traffic Safety Center 141
Reliability Analysis Center 152
Underwriters' Laboratories, Inc. 176

Safety laws
American National Standards Institute 18
American Society of Safety Engineers 27
American Welding Society 28
Bureau of Motor Carrier Safety 40
Highway Research Information Service 87
Pittsburgh Mining and Safety Research Center 143

Safety manuals
Aerospace Safety Research and Data Institute 7

225
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Safety practices
American Medical Association 17
American Society for Nondestructive Testing 23
American Society of Safety Engineers 27
Chlorine Institute 45
National Safety Council 123
Nondestructive Testing Information Analysis Center 132

Safety procedures
Environmental Information Division 72

Safety regulations
American Society for Nondestructive Testing 23
American Society of Civil Engineers 24
Pittsburgh Mining and Safety Research Center 143

Safety standards
Aerospace Safety Research and Data Institute 7
American Society of Safety Engineers 27
Biosciences Information Service 37
Factory Mutual Research Corp. 75
Global Engineering Documentation Service, Inc. 82
National Safety Council 123
Occupational Safety and Health Administration 137
Pittsburgh Mining and Safety Research Center 143
Society of the Plastics Industry, Inc. 163

Sanitation
Air Pollution Technical Information Center 11
American Medical Association 17
Lead Industries Association, Inc. 97
US Army Environmental Hygiene Agency 177

Scientific data
US Army Research Office 178

Search and rescue
SAR-ASSIST, Inc. 156

Search and rescue operations
Federal Aviation Administration 76
Naval Aerospace Recovery Facility 127
SAR-ASSIST, Inc. 156

Secondary fabrication
Metal Powder Industries Federation 104

Seismology
American Nuclear Society 19

Senses
American Psychological Association 22

Servicing
American Society for Nondestructive Testing 23
Project SETE 145

Shielding
American Nuclear Society 19
Biosciences Information Service 37
Defence and Civil Institute of Environmental Medicine 59

Shielding (cont'd)
Electromagnetic Metrology Information Center 66
Institute of Environmental Sciences 92
National Council on Radiation Protection and Measurements 115

Shielding equipment
Microwave Spectral Data Center 107

Shipping procedures
American Petroleum Institute 20
Bureau of Motor Carrier Safety 40
Chlorine Institute 45
Compressed Gas Association, Inc. 50
National Fire Protection Association 116
National LP-Gas Association 121

Shipping regulations
American Petroleum Institute 20
Bureau of Explosives 39
Bureau of Motor Carrier Safety 40
Chlorine Institute 45
Compressed Gas Association, Inc. 50
Institute of Gas Technology 93
National Fire Protection Association 116

Shock
Industrial Fasteners Institute 90
Shock and Vibration Information Center 158

Shock and vibration
American Institute of Physics 15
Office of Standard Reference Data 138
Shock and Vibration Information Center 158

Shock Wave Data Center 159

Smelting
Metals Information Service 106

Smoke
National Climatic Center 114

Smoke detectors
National Climatic Center 114

Soil mechanics
Highway Research Information Service 87

Solar radiation
AEC Technical Information Center 3
American Institute of Physics 15
Electromagnetic Metrology Information Center 66
Environmental Science Information Center 73
National Council on Radiation Protection and Measurements 115
Radiation Chemistry Data Center 146
Radiation Shielding Information Center 147

Solid state physics
Rare-Earth Information Center 149

Solvents
Copper Data Center 54

Space sciences
Aerospace Materials Information Center 5
Aerospace Research Applications Center 6
Information sources listed by areas of expertise

Space sciences (cont'd)
American Society of Mechanical Engineers 26
Computer Search Center 51
Convair Aerospace Division Research Library 53
Defense Documentation Center 60
Engineering Index, Inc. 68
Engineering Societies Library 69
General Electric Space Division 79
Lockheed Technical Information Center 98
Microwave Spectral Data Center 107
NASA Scientific and Technical Information Office 110
National Referral Center 122
National Technical Information Service 125
New England Research Application Center 131
North Carolina Science and Technology Research Center 134
Redstone Scientific Information Center 150
Rockwell Technical Information Processing System 154
Smithsonian Science Information Exchange 160
Technology Application Center 169
Western Research Application Center 180

Space simulation facilities
Executive Sciences Institute, Inc. 74
Society for Computer Simulation 161

Space simulation operations
Executive Sciences Institute, Inc. 74
Midwest Research Institute 108
Society for Computer Simulation 161

Space vehicle problems
Aerospace Safety Research and Data Institute 7
National Space Science Data Center 124
Reliability Analysis Center 152
Southwest Research Institute 164

Specific heat
Cryogenic Data Center 55
Low-Temperature Specific Heats Data Center 99
Thermophysical Properties Information Analysis Center 172

Stainless steel
Steel Founders' Society of America 167

Standard reference
Office of Standard Reference Materials 139

Standards
Flight Safety Foundation 78
National Aircraft Accident Investigation School 111
National Transportation Safety Board 126
Office of Standard Reference Materials 139
Standards Information Services 166

State-of-the-art reviews
Controlled Fusion Atomic Data Center 52

Statutes...
American Society for Nondestructive Testing 23
National Aircraft Accident Investigation School 111
National Transportation Safety Board 126
Standards Information Services 166

Steel
American Institute of Steel Construction, Inc. 16
Army Materials and Mechanics Research Center 32
Steel Founders' Society of America 167

Steel alloys
American Institute of Steel Construction, Inc. 16
Army Materials and Mechanics Research Center 32
Metals and Ceramics Information Center 105
Steel Founders' Society of America 167

Steel construction
American Institute of Steel Construction, Inc. 16
Steel Founders' Society of America 167

Storage procedures
American Petroleum Institute 20
Chlorine Institute 45
Institute of Gas Technology 93

Stress
Industrial Fasteners Institute 90
Office of Standard Reference Data 138

Stress/strain analysis
Army Materials and Mechanics Research Center 32
Georgia Information Dissemination Center 80
Industrial Fasteners Institute 90
Midwest Research Institute 108
Steel Founders' Society of America 167

Structural dynamics
Army Materials and Mechanics Research Center 32

Structural engineering
American Institute of Steel Construction, Inc. 16
American Society of Civil Engineers 24
Materials Research Center 102
Steel Founders' Society of America 167

Structural failure
Georgia Information Dissemination Center 80
Highway Research Information Service 87
Industrial Fasteners Institute 90
Society of Automotive Engineers, Inc. 162
Southwest Research Institute 164

Structural materials
Army Materials and Mechanics Research Center 32
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Structural materials limitations
- Air Force Flight Dynamics Laboratory 9
- American Society for Nondestructive Testing 23
- American Society of Civil Engineers 24
- American Welding Society 28
- Diffusion in Metals Data Center 63
- Factory Mutual Research Corp. 75
- Georgia Information Dissemination Center 80
- Highway Research Information Service 87
- Industrial Fasteners Institute 90
- Materials Research Center 102
- Mechanical Properties Data Center 103
- Metals Information Service 106
- Midwest Research Institute 108
- Office of Standard Reference Data 138
- Research Materials Information Center 153
- Society of Automotive Engineers, Inc. 162

Structural mechanics
- Shock and Vibration Information Center 158

Survival
- American Nuclear Society 19
- Environmental Information Division 72
- Highway Safety Research Institute 88
- SAR-ASSIST, Inc. 156
- Society of Automotive Engineers, Inc. 162

System contamination
- Institute of Gas Technology 93

Systems engineering
- Regional Information and Communication Exchange 151

Systems safety
- General Electric Space Division 79
- Pennsylvania Transportation and Traffic Safety Center 141
- System Safety Office, Electronic Systems Division 168

Temperature
- Committee on Fire Research 49
- Cryogenic Data Center 55

Test data
- American Society for Nondestructive Testing 23
- Government-Industry Data Exchange Program 84

Test equipment
- American Society for Nondestructive Testing 23
- Nondestructive Testing Information Center 133
- Project SETE 145

Test facilities
- American Society for Nondestructive Testing 23
- Army Materials and Mechanics Research Center 32
- Electromagnetic Metrology Information Center 66
- Harry Diamond Laboratories 86

Test facilities (cont'd)
- Naval Aerospace Recovery Facility 127
- Nondestructive Testing Information Analysis Center 132
- Nondestructive Testing Information Center 133
- Project SETE 145
- Space and Missile Test Center 165
- Standards Information Services 166
- Underwriters' Laboratories, Inc. 176

Test operations
- Naval Aerospace Recovery Facility 127
- Nondestructive Testing Information Analysis Center 132
- Nondestructive Testing Information Center 133
- Project SETE 145
- Standards Information Services 166
- Underwriters' Laboratories, Inc. 176

Test results
- American Society for Nondestructive Testing 23

Test techniques
- American Society for Nondestructive Testing 23
- Government-Industry Data Exchange Program 84
- Illuminating Engineering Society 89
- Nondestructive Testing Information Analysis Center 132
- Nondestructive Testing Information Center 133
- Standards Information Services 166

Tests
- Executive Sciences Institute, Inc. 74
- Global Engineering Documentation Service, Inc. 82
- Harry Diamond Laboratories 86
- Nondestructive Testing Information Center 133
- Reliability Analysis Center 152
- Southwest Research Institute 164

Textiles
- Institute of Textile Technology 95

Thermal conductivity
- Cryogenic Data Center 55
- Thermophysical Properties Information Analysis Center 172

Thermal energy
- Power Information Center 144

Thermal properties
- Cryogenic Data Center 55
- Thermophysical Properties Information Analysis Center 172

Thermal treatment
- Metals Information Service 106

Thermochemical properties
- Chemical Kinetics Data Center 42
- Chemical Thermodynamics Data Center 44

Thermodynamic data
- Chemical Kinetics Data Center 42
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

Thermodynamic properties
American Institute of Physics 15
Chemical Kinetics Data Center 42
Chemical Thermodynamics Data Center 44
Cryogenic Data Center 55
Georgia Information Dissemination Center 80
Thermodynamics Research Center 171
Thermophysical Properties Information Analysis Center 172

Thermodynamics
American Petroleum Institute 21
Chemical Kinetics Data Center 42
Electrolyte Data Center 65
Thermodynamics Research Center 171

Titanium
Air Force Machinability Data Center 10
Alloy Data Center 12
Mechanical Properties Data Center 103
Metals and Ceramics Information Center 105

Titanium alloys
Metals and Ceramics Information Center 105

Toxic effects
American Conference of Governmental Industrial Hygienists 13

Toxic gases
Biosciences Information Service 37
National Institute for Occupational Safety and Health 119
Toxicology Information Program 174

Toxic substances
Aerospace and Environmental Medicine Information System 4
American Conference of Governmental Industrial Hygienists 13
American Medical Association 17
Biosciences Information Service 37
Chlorine Institute 45
Civil Aeronautical Institute 46
Lead Industries Association, Inc. 97
National Institute for Occupational Safety and Health 119
National Library of Medicine 120
Rare-Earth Information Center 149
Toxicology Information Program 174

Toxicology
American Industrial Hygiene Association 14
American Medical Association 17
American Nuclear Society 19
Biosciences Information Service 37
Guggenheim Center for Aerospace Health and Safety 85
National Library of Medicine 120
Pennsylvania Transportation and Traffic Safety Center 141
Toxicology Information Program 174

Transport properties
Photonuclear Data Center 142

Transportation
Bureau of Explosives 39
Highway Research Information Service 87
Pennsylvania Transportation and Traffic Safety Center 141

Transportation engineering
Bureau of Motor Carrier Safety 40
Highway Research Information Service 87
Pennsylvania Transportation and Traffic Safety Center 141
Regional Information and Communication Exchange 151

Transportation procedures
American Petroleum Institute 20
Bureau of Motor Carrier Safety 40
Chlorine Institute 45
Compressed Gas Association, Inc. 50
Highway Research Information Service 87
Institute of Gas Technology 93
National Fire Protection Association 116
National LP-Gas Association 121

Transportation regulations
American Petroleum Institute 20
Bureau of Motor Carrier Safety 40
Chlorine Institute 45
Compressed Gas Association, Inc. 50
Highway Research Information Service 87
Institute of Gas Technology 93
National Fire Protection Association 116
National Safety Council 123

Turbine engines
Institute of Gas Technology 93
Society of Automotive Engineers, Inc. 162

Upper atmosphere
Environmental Science Information Center 73
National Climatic Center 114

Vehicle fire prevention design
Federal Aviation Administration 76
National Aircraft Accident Investigation School 111
National Transportation Safety Board 126

Vehicle fires
Federal Aviation Administration 76
Institute of Textile Technology 95
National Aircraft Accident Investigation School 111

Vehicle subsystems
Reliability Analysis Center 152

Vehicles
National Transportation Safety Board 126

Viscosity
Thermophysical Properties Information Analysis Center 172
INFORMATION SOURCES LISTED BY AREAS OF EXPERTISE

W

Warning systems
Armed Forces Radiobiology Research Institute 30
Defence and Civil Institute of Environmental Medicine 59
Electromagnetic Metrology Information Center 66
Electronic Industries Association 67
Instrument Society of America 96
National Council on Radiation Protection and Measurements 115
National Transportation Safety Board 126
Nondestructive Testing Information Center 133
Numerical Control Society 136
Reliability Analysis Center 152

Waste disposal
Guggenheim Center for Aerospace Health and Safety 85

Waste disposal systems
Environmental Information Analysis Center 71

Water pollution
Environmental Information Analysis Center 71
Science Information Services 157

Water resources
Science Information Services 157

Weather modification
National Climatic Center 114

Working (metals)
Metals Information Service 106

Wrought aluminum
Metals and Ceramics Information Center 105

X

X-ray technology
Nondestructive Testing Information Center 133
X-Ray Attenuation Coefficient Information Center 181

Y

Zirconium
Air Force Machinability Data Center 10