Index to NASA News Releases and Speeches 1990

(NASA-TM-108003) INDEX TO NASA NEWS RELEASES AND SPEECHES, 1990 (NASA) 62 p

N93-10872

Unclassified

G3/82 0124825

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Index to NASA
News Releases and Speeches
1990

An index to selected news releases and speeches issued by NASA Headquarters during 1990.
INTRODUCTION

This issue of the *Index to NASA News Releases and Speeches* contains a listing of news releases distributed by the Office of Public Affairs, NASA Headquarters, and a selected listing of speeches presented by members of the Headquarters staff during 1990. This index supplements the previous issues that were identified as *Index to NASA News Releases and Speeches 1963-1966*, and the supplements for 1967 through 1989.

The index is arranged in six sections - Subject Index, Personal Names Index, News Release Number Index, Accession Number Index, Speeches, and News Releases.

Section 1, Subject Index, contains subject headings arranged alphabetically that describe the contents of the items indexed. Under each heading the user will find applicable references to news releases and speeches containing information on that subject entry and, in many cases, cross-references to related subject headings. Each entry contains the title, accession number, news release number, and reference section (05 for Section 5, Speeches and 06 for Section 6, News Releases).

Two types of cross-references are used:
- S for 'SEE' directs the user to a subject heading where references can be found—
  
  **COMSAT**
  
  S COMMUNICATIONS SATELLITE CORP.

- SA for 'SEE ALSO' directs the user to related subject headings where additional references may be found—
  
  **COMMUNICATION SATELLITES**
  
  SA TELESAT SATELLITES

Section 2, Personal Names Index, contains personal names arranged alphabetically that identify the persons mentioned in the indexed items or, in the case of speeches, the speaker. Each entry contains the title, accession number, news release number, and the reference section. The symbol + is used to identify speeches presented by the person under whose name they are indexed.

Section 3, News Release Number Index, lists all numbered NASA News Releases arranged in news release number order, with the corresponding accession and reference numbers.

Section 4, Accession Number Index, lists all items indexed in this publication arranged in accession number order. Each entry contains the reference section and the corresponding news release number.

Section 5, Speeches, lists the speeches indexed in this publication arranged in accession number order. Each entry contains the title, speaker, date of release, and other reference information.

Section 6, News Releases, lists the news releases, press briefings, news conference transcripts, and other public information releases indexed in this publication, arranged in accession number order. Each news release reference contains the title, date of release, news release number, if any, and other reference information.

Copies of documents listed in this index are available to NASA offices on request from the NASA Center for AeroSpace Information, P.O. Box 8757, BWI Airport, MD 21240. Requests for copies of the index itself should be addressed to the Scientific and Technical Information Program, Code NTT, National Aeronautics and Space Administration, Washington, DC 20546.
**Table of Contents**

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Subject Index</td>
<td>A-1</td>
</tr>
<tr>
<td>2. Personal Names Index</td>
<td>B-1</td>
</tr>
<tr>
<td>3. News Release Number Index</td>
<td>C-1</td>
</tr>
<tr>
<td>4. Accession Number Index</td>
<td>D-1</td>
</tr>
<tr>
<td>5. Speeches</td>
<td>E-1</td>
</tr>
<tr>
<td>6. News Releases</td>
<td>F-1</td>
</tr>
</tbody>
</table>
A
ABORT PROCEDURES
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-10122 06

ACADEMY OF SCIENCES, U.S.S.R.
JOINT NASA, USRS AND SOVIET TEAM TO STUDY RUSSIAN VOLCANOES
[NASA RELEASE-90-124] P90-10124 06

ACCIDENTS
S SPACECRAFT ACCIDENTS
ADEOS /SATELLITE/
S ADVANCED EARTH OBSERVING SATELLITE

ADMINISTRATIVE OPERATIONS
SA ORGANIZATION CHANGE
Nasa leadership meets with task force
[NASA RELEASE-90-161] P90-10161 06

ADVANCED EARTH OBSERVING SATELLITE
U.S. AND U.S.S.R. AGREE ON OZONE MONITORING FROM SPACE
[NASA RELEASE-90-105] P90-10105 06
Nasa and japon agree on new areas of space cooperation
[NASA RELEASE-90-116] P90-10116 06

ADVANCED LAUNCH SYSTEM /ALS/
ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED
[NASA RELEASE-90-113] P90-10113 06

ADVANCED SOLID ROCKET MOTOR /SHUTTLE/
Nasa awards contract to develop advanced solid rocket motor
[NASA RELEASE-90-68] P90-10068 06

ADVANCED TDR SATELLITE SYSTEM
S ADVANCED TRACKING AND DATA RELAY SAT. SYS.

ADVANCED TRACKING AND DATA RELAY SAT. SYS.
ADVANCED TRACKING AND DATA RELAY SATELLITE PHASE B RFP RELEASED
[NASA RELEASE-90-2] P90-10002 06

ADVANCED X-RAY ASTROPHYSICS FACILITY
S X-RAY ASTROPHYSICS FACILITY

ADVISORY COMM. ON FUTURE U.S. SPACE PRGM.
Nasa leadership meets with task force
[NASA RELEASE-90-161] P90-10161 06
TRULY TO IMPLEMENT IMMEDIATELY SOME COMMITTEE RECOMMENDATIONS
[NASA RELEASE-90-162] P90-10162 06

AERORAKING
28TH GIODARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW;
WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05

AERODYNAMICS
RESEARCH EXPERIMENTS TO MONITOR COLUMBIA RE-ENTRY
[NASA RELEASE-90-8] P90-10008 06
AEROJET CO.
ADVANCED LAUNCH ROCKET ENGINE DEFINED
[NASA RELEASE-90-113] P90-10113 06
AEROJET SPACE BOOSTERS CO., SACRAMENTO, CA
Nasa awards contract to develop advanced solid rocket motor
[NASA RELEASE-90-68] P90-10068 06

AERONAUTICAL RESEARCH
NASA'S FIRST 'A' MARKS 75 YEARS OF ACHIEVEMENT
[NASA RELEASE-90-35] P90-10035 06
Nasa to conduct thrust vectoring research flights
[NASA RELEASE-90-136] P90-10136 06
Nasa budget press conference
P90-10166 05
TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: ADMIRAL TRULY'S BUDGET NEWS CONFERENCE
P90-10167 05
ADDRESS TO: THE NATIONAL SPACE CLUB; L'ENFANT PLAZA HOTEL, WASHINGTON, D.C.
P90-10171 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE TOWN HALL OF CALIFORNIA; LOS ANGELES, CALIFORNIA
P90-10172 05
STATEMENT OF RICHARD H. TRULY BEFORE THE SUBCOMMITTEE ON SCIENCE, TECHNOLOGY AND SPACE; COMMITTEE ON COMMERCE, SCIENCE AND TRANSPORTATION, UNITED STATES SENATE
P90-10173 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB; ARLINGTONT, VIRGINIA
P90-10177 05
REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR; BEFORE THE AVIATION SPACE WRITERS
P90-10178 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB; ARINGTONT, VIRGINIA
P90-10177 05
REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR; BEFORE THE AVIATION SPACE WRITERS
P90-10178 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT; DALLAS, TEXAS
P90-10192 05
AGENZIA SPAZIALE ITALIANA
S ITALIAN SPACE AGENCY

MISSISSIPPI STATE UNIVERSITY FALL FACULTY CONVOCATION
P90-10185 05

NASA RELEASE-90-40
ADVANCED SOLID ROCKET
ADVANCED LAUNCH SYSTEM/ALS/
ADVANCED EARTH OBSERVING SATELLITE

ADMINISTRATIVE
ACADEMY OF SCIENCES, U.S.S.R.
INCLUDED.

IF AVAILABLE, THE NEWS RELEASE NUMBER IS ALSO IN-
THE INDEX SECTION WHERE THE COMPLETE CITATION APPEARS.
THE ACCESSION NUMBER IS A TWO-DIGIT NUMBER (05 OR 06)
FOLLOWED BY A TWO-DIGIT NUMBER (05 OR 06).

THE TITLE OF THE NEWS RELEASE OR SPEECH IS USED AS
THE PRIME RETRIEVAL POINT. THE ACCESSION NUMBER IS
ALSO INCLUDED.

AIRCRAFT DESIGN
HIGHEST TRANSPORT ACCEPTANCE LINKED TO TECHNOLOGY ADVANCEMENTS
[NASA RELEASE-90-40] P90-10040 06

REFERENCE SECTION NUMBER

SUBJECT

ACCESSION NUMBER

NEWS RELEASE NUMBER

EXCERPTS OF REMARKS PREPARED FOR DELIVERY TO TECHNOLOGY 2000 CONFERENCE;
WASHINGTON, D.C.
P90-10191 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT; DALLAS, TEXAS
P90-10192 05
THE EXPLORATION OF SPACE: ALFRED M. LANDON LECTURE; KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS
P90-10193 05

AEROSPACE ENGINEERING
SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM PHASE II ANNOUNCED
[NASA RELEASE-90-75] P90-10075 06
NASA CHOSES INDUSTRY/UNIVERSITY IN-SPACE TECHNOLOGY STUDIES
[NASA RELEASE-90-68] P90-10068 06
NASA AWARDS EDUCATION RESEARCH GRANTS
[NASA RELEASE-90-126] P90-10125 06

AEROSPACE MEDICINE
NASA ANNOUNCED PAYLOAD SPECIALISTS FOR SPACELAB IMP-1 MISSION
[NASA RELEASE-90-9] P90-10009 06
COMPUTERIZED MEDICAL REFERENCE HAS SPACELAB AND EARTH APPLICATIONS
[NASA RELEASE-90-30] P90-10030 06
U.S. AND U.S.S.R. CONTINUE SPACE BIOLOGY AND MEDICINE COOPERATION
[NASA RELEASE-90-139] P90-10130 06

AEROSPACE PLANES
SA-X-30 AIRCRAFT
DOD/NASA ANNOUNCE NATIONAL AERO-SPACE PLANE CONTRACTOR TEAM
[NASA RELEASE-90-71] P90-10071 06
TECHNOLOGY 2000: NASA OUTREACH TO AMERICAN BUSINESS
[NASA RELEASE-90-147] P90-10147 06
NASA BUDGET PRESS CONFERENCE
P90-10165 05
TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: ADMIRAL TRULY'S BUDGET NEWS CONFERENCE
P90-10167 05
KEYNOTE ADDRESS TO THE NATIONAL ROCKET PROPULSION SYMPOSIUM; ALEXANDRIA, VIRGINIA
P90-10168 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY; ECONOMIC CLUB OF DETROIT; DEARBORN, MICHIGAN
P90-10170 05
ADDRESS TO THE NATIONAL SPACE CLUB; L'ENFANT PLAZA HOTEL, WASHINGTON, D.C.
P90-10171 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB; ARLINGTONT, VIRGINIA
P90-10177 05
REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR; BEFORE THE AVIATION SPACE WRITERS
P90-10178 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT; DALLAS, TEXAS
P90-10192 05
AGENZIA SPAZIALE ITALIANA
S ITALIAN SPACE AGENCY

A-1
C-131 AIRCRAFT
SCIENTISTS REPORT POLLUTION IN CLOUDS CAN COOL EARTHS CLIMATE
[NASA RELEASE-90-17] P90-10017 06

C-140 AIRCRAFT
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY
[NASA RELEASE-90-115] P90-10115 06

CALIFORNIA INST. OF TECHNOL., PASADENA
NASA TO USE WORLD'S FASTEST SUPERCOMPUTER
[NASA RELEASE-90-151] P90-10151 06

CALIFORNIA UNIV., BERKELEY
ASTRONOMICAL TELESCOPES FOR NASA SPACECRAFT ARRIVE AT GOODARD
[NASA RELEASE-90-34] P90-10034 06

COBE SPACECRAFT TAKES FIRST IMAGES OF INTERSTELLAR DUST
[NASA RELEASE-90-140] P90-10140 06

CALIFORNIA UNIV., LIVERMORE
S. LAWRENCE LIVERMORE LAB

CALIFORNIA UNIV., LOS ANGELES
NASA CHOOSES INDUSTRY/UNIVERSITY IN-SPACE TECHNOLOGY STUDIES
[NASA RELEASE-90-88] P90-10088 06

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

CALIFORNIA UNIV., SAN DIEGO
NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS
[NASA RELEASE-90-18] P90-10018 06

CONTROLLED REST PERIODS SHOWN TO IMPROVE PILOT ALERTNESS
[NASA RELEASE-90-90] P90-10090 06

CAMERAS
S. PAINT OBJECT CAMERA
S. WIDE FIELD CAMERAS

CANADA
SA. CANADIAN SPACE AGENCY
NASA EXPERIMENT TO BRIGHTEN EASTER SKY
[NASA RELEASE-90-54] P90-10054 06

TRULY PRESENTED SPACE MODEL BY CANADIAN SCHOOL
[NASA RELEASE-90-65] P90-10065 06

U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY
[NASA RELEASE-90-102] P90-10102 06

CANADIAN INST. FOR RES. IN ATOMSPH. CHEM.
U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY
[NASA RELEASE-90-102] P90-10102 06

CANADIAN SPACE AGENCY
TRULY PRESENTED SPACE MODEL BY CANADIAN SCHOOL
[NASA RELEASE-90-65] P90-10065 06

CANARD SUBSYSTEM
X-29 SHOWS UNEXPECTED MANEUVERABILITY IN 'HIGH-ALPHA' FLIGHT
[NASA RELEASE-90-52] P90-10052 06

CAPE CANAVERAL, FLA.
S. KENNEDY SPACE CENTER, COCOA BEACH, FLA.

CAPE KENNELDY, FLA.
S. KENNEDY SPACE CENTER, COCOA BEACH, FLA.

CARBON DIOXIDE
INTERNATIONAL CONFERENCE ADDRESSES GLOBAL BURNING
[NASA RELEASE-90-39] P90-10039 06

HOT EARLY EARTH EVIDENCE MAY CHANGE LIFE EVOLUTION THEORIES
[NASA RELEASE-90-128] P90-10128 06

CARNegie-MELLON UNIV., PITTSBURGH, PA.
CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA
[NASA RELEASE-90-69] P90-10069 06

NASA'S JET PROPULSION LABORATORY TESTS PLANETARY ROVER
[NASA RELEASE-90-85] P90-10085 06
Cosmic Rays

Cosmic Rays
Rosat spacecraft to explore high energy universe
[NASA release: 90-66] P90-1006 06
NASA rosat imager returns successful first light pictures
[NASA release: 90-133] P90-10133 06

Cosmos System
S Big Bang cosmology

Cosmos Satellites
U.S. and U.S.S.R. continue space biology and medicine cooperation
[NASA release: 90-130] P90-10130 06

Cost Estimates
Space station integrated design review completed
[NASA release: 90-165] P90-10165 06

Cost Reduction
Firing ‘old’ shuttle rocket motors has benefits for future
[NASA release: 90-6] P90-10006 06

Cplm
S Clinical practice library of medicine

Craf Mission
S Comet rendezvous/astroid flyer

Crash Hazard
S Aircraft safety

Cryogenic Equipment
NASA and Rockwell sign agreement for CPO pallet
[NASA release: 90-47] P90-10047 06

Cryogenics
COD Experiences new phase of operations after helium depletion
[NASA release: 90-129] P90-10129 06

Crystal Growth
NASA announced payload specialists for space Lett IM-1 mission
[NASA release: 90-31] P90-10031 06

Discovery to Station Hubble space telescope in earth orbit
[NASA release: 90-44] P90-10044 06

Cygnus X-2 Star
NASA Rosat imager returns successful first light pictures
[NASA release: 90-133] P90-10133 06

Data Acquisition and Analysis
Scientists advance monitoring of global atmospheric temperatures
[NASA release: 90-45] P90-10045 06

Data Management
Overview major space programs, presented to treasury executive institute P90-10173 05

Data Processing
Pioneer studies lightning on Venus
[NASA release: 90-101] P90-10101 06

Data Systems
NASA selects 37 students for global change fellowship program
[NASA release: 90-87] P90-10087 06

Debris
S Space debris

Deep Space Network
Ulysses spacecraft arrives at cape to begin launch preparations
[NASA release: 90-70] P90-10070 06

Pioneer 10 marks new epoch in solar system exploration
[NASA release: 90-125] P90-10125 06

Second international symposium on space information systems, Pasadena, California P90-10186 05

Defense Advanced Research Projects Agency
Two communications satellites to be launched in May
[NASA release: 90-64] P90-10064 06
NASA/UAF x-29 research aircraft set for public viewing
[NASA release: 90-84] P90-10084 06
NASA to use world’s fastest supercomputer
[NASA release: 90-151] P90-10151 06

Defense, Department of
S Department of Defense

Deforestation
International space year education conference to be held in France
[NASA release: 90-16] P90-10016 06
International conference addresses global burning
[NASA release: 90-39] P90-10039 06
NASA studies effect of tropical-forest burning on greenhouse gas
[NASA release: 90-67] P90-10067 06

Delta Launch Vehicles
SA Delta 2 launch vehicle early core results in accord with big bang theory
[NASA release: 90-5] P90-10005 06
Rosat spacecraft arrives at Florida launch site
[NASA release: 90-27] P90-10027 06
Rosat spacecraft to explore high energy universe
[NASA release: 90-66] P90-10066 06
Cobe spacecraft takes first images of interstellar dust
[NASA release: 90-140] P90-100140 06
NASA releases December 1990 mixed fleet manifest
[NASA release: 90-158] P90-100158 06
Delta Supercomputer System
S Touchstone delta supercomputer

Delta 2 Launch Vehicle
Rosat spacecraft arrives at Florida launch site
[NASA release: 90-27] P90-10027 06
Astronomical telescopes for NASA spacecraft arrive at goodard
[NASA release: 90-34] P90-10034 06

Department of Agriculture
S Forest service, U.S.
NASA to cosponsor small business procurement conference
[NASA release: 90-125] P90-10125 06

Department of Commerce
S National oceanic and atmospheric administration
NASA selects eight research satellite telecommunications proposals
[NASA release: 90-18] P90-10018 06

Department of Defense
S Defense advanced research projects agency
DOD/NA announce national aero-space plane contractor team
[NASA release: 90-71] P90-10071 06
NASA announces 1990 SPR awards
[NASA release: 90-100] P90-100100 06
NASA to cosponsor small business procurement conference
[NASA release: 90-133] P90-10133 06

Department of Energy
S Argonne National Lab, Ill.
S Oak ridge national lab, Tenn.
S National nuclear laboratory, England
S Strategic agriculture, Idaho
S Geosat program, Switzerland

Department of the Treasury
Overview major space programs, present to treasury executive institute
P90-10179 05

Department of Transportation
S Federal aviation administration

Design Criteria
S Airframe design
S Satellite configurations
S Spacecraft configurations
S Spacecraft design

Detectors
S Infrared detectors

Differential Microwave Radiometer
Early core results in accord with big bang theory
[NASA release: 90-5] P90-10005 06
Cobe enters new phase of operations after helium depletion
[NASA release: 90-129] P90-10129 06
Cobe spacecraft takes first images of interstellar dust
[NASA release: 90-140] P90-100140 06

Diffuse Infrared Background Experiment
Early core results in accord with big bang theory
[NASA release: 90-5] P90-10005 06
Cobe enters new phase of operations after helium depletion
[NASA release: 90-129] P90-10129 06
Cobe spacecraft takes first images of interstellar dust
[NASA release: 90-140] P90-100140 06

Digital Coding
S Data processing

Dirbe
S Diffuse infrared background experiment

Discovery
NASA release, January 1990 payload flight assignments manifest
Gamma-ray observatory set for shipment to Florida launch site
[NASA release: 90-19] P90-10019 06
Discovery to station hubble space telescope in earth orbit
[NASA release: 90-44] P90-10044 06
Ulysses spacecraft arrives at Cape to begin launch preparations
[NASA release: 90-70] P90-10070 06

Dmr
S Differential microwave radiometer

Doc
S Department of commerce

DOD
S Department of defense

Dornier-System GMBH, Germany
Ulysses spacecraft arrives at cape to begin launch preparations
[NASA release: 90-70] P90-10070 06

Douglas Aircraft Co., Inc.
High speed transportation acceptance linked to technology advancements
[NASA release: 90-40] P90-10040 06

Downtown Association, New York, N.Y.
Excerpts from remarks prepared for delivery at the downtown association, New York, New York P90-10182 05

Drag Chutes
Space shuttle drag chute tests set to begin at Ames-Dryden
[NASA release: 90-100] P90-100100 06

Drag Reduction
NASA F-16L aircraft laminar flow studies set to begin
[NASA release: 90-59] P90-10059 06
Flight tests prove concept for jetliner

Fuel Economy
S NASA release: 90-115 P90-10115 06
### SUBJECT INDEX

#### EXTRREME ULTRAVIOLET EXPLORER
- Astronomical Telescopes for NASA
  - Spacecraft Arrive at Goodard
    - NASA Release: 90-34
    - P90-10034 06
- NASA Releases December 1990 Mixed Fleet Manifest
  - NASA Release: 90-158
  - P90-10158 06

#### F-14 AIRCRAFT
- Flight Tests Prove Concept for Jetliner Fuel Economy
  - NASA Release: 90-115
  - P90-10115 06

#### F-15 AIRCRAFT
- NASA F-15 Demonstrates Self-Repairing Flight Control System
  - NASA Release: 90-43
  - P90-10043 06

#### F-16 AIRCRAFT
- NASA F-16XL Aircraft Laminar Flow Studies
  - Set to Begin
    - NASA Release: 90-59
    - P90-10059 06

#### F/A-18 AIRCRAFT
- NASA to Conduct Thrust Vectoring Research Flights
  - NASA Release: 90-136
  - P90-10136 06

#### FAA
- S. Federal Aviation Administration
- Facilities
  - Research Facilities
  - Test Facilities

#### FAILURE INVESTIGATION
- Hubble Board of Investigation Named
  - NASA Release: 90-81
  - P90-10081 06
- CRRES Launch Delayed One to Two Weeks
  - NASA Release: 90-89
  - P90-10089 06
- NASA Names Space Shuttle Hydrogen Leak Investigation Team
  - NASA Release: 90-127
  - P90-10127 06

#### FAINT OBJECT CAMERA
- NASA Scientific Instruments to Observe Comet Austin
  - NASA Release: 90-57
  - P90-10057 06
- HST Takes Family Portrait of Stars Outside Milky Way
  - NASA Release: 90-111
  - P90-10111 06
- Hubble Space Telescope Resolves Gaseous Ring Around Supernova
  - NASA Release: 90-117
  - P90-10117 06

#### FAINT OBJECT SPECTROGRAPH
- NASA Scientific Instruments to Observe Comet Austin
  - NASA Release: 90-57
  - P90-10057 06

#### FAR INFRARED ABSOLUTE SPECTROPHOTOMETER
- Early Cube Results in Accord with Big Bang Theory
  - NASA Release: 90-51
  - P90-10051 06

#### FEDERAL AVIATION ADMINISTRATION
- Controlled Rest Periods Shown to Improve Pilot Alertness
  - NASA Release: 90-90
  - P90-10090 06
- NASA and FAA Sign Aviation Research Agreements
  - NASA Release: 90-131
  - P90-10131 06

#### FEDERAL MINISTRY FOR RES. & TECHNOLOGY/IFRG
- NASA Releases December 1990 Mixed Fleet Manifest
  - NASA Release: 90-158
  - P90-10158 06

#### FUEL SYSTEMS
- Proposals Sought for Satellite Servicer
  - Flight Demonstration
    - NASA Release: 90-12
    - P90-10012 06

#### FUEL THERMOBOTIC SERVICER
- Management of Polar Platform to Change
  - NASA Release: 90-10
  - P90-10010 06

#### FLIGHT EXCERPTS
- NASA F-15 Demonstrates Self-Repairing Flight Control System
  - NASA Release: 90-43
  - P90-10043 06

#### FLIGHT TESTS
- Hubble Postdoctoral Fellowship Program Established
  - NASA Release: 90-38
  - P90-10038 06
- NASA Selects 37 Students for Global Change Fellowship Program
  - NASA Release: 90-87
  - P90-10087 06

#### FIELD
- S. Solar Magnetic Field

#### FIRAS
- S. Far Infrared Absolute Spectrophotometer

#### FIRES
- International Conference Addresses Global Burning
  - NASA Release: 90-29
  - P90-10029 06
- NASA Studies Effects of Tropical Forest Burning on Greenhouse Gas
  - NASA Release: 90-67
  - P90-10067 06

#### FISSION REACTORS
- Lunar Mining Could Provide Future Energy: Source for Earth
  - NASA Release: 90-139
  - P90-10139 06

#### FLIGHT CONTROL
- SA Highly Integrated Dig. Electronic Control

#### FLIGHT DEMONSTRATION
- NASA F-15 Demonstrates Self-Repairing Flight Control System
  - NASA Release: 90-43
  - P90-10043 06

#### FLIGHT DURATION
- CRRES Launch Set for July to Study Earth's Space
  - NASA Release: 90-94
  - P90-10094 06

#### FLIGHT LAB., WRIGHT-PATTERSON AFB
- NASA F-15 Demonstrates Self-Repairing Flight Control System
  - NASA Release: 90-43
  - P90-10043 06

#### FLIGHT FATIGUE
- Controlled Rest Periods Shown to Improve Pilot Alertness
  - NASA Release: 90-90
  - P90-10090 06

#### FLIGHT RESEARCH CENTER, EDWARDS, CALIF.
- S. Dryden Flight Research Facility, Calif.

#### FLIGHT SAFETY
- Controlled Rest Periods Shown to Improve Pilot Alertness
  - NASA Release: 90-90
  - P90-10090 06

#### FORD AEROSPACE AND COMMUNICATIONS CORP.
- NASA and Honeywell Conduct Automated Landing Research
  - NASA Release: 90-151
  - P90-10151 06

#### FOREST SERVICE, U.S.
- International Conference Addresses Global Burning
  - NASA Release: 90-39
  - P90-10039 06

#### FORESTS
- S. Rain Forests

#### FRENCH SATELLITE/FRENCH SATELLITE/SATELLITE SERVICER
- NATO Decides Tracks to Feature French Satellites
  - NASA Release: 90-136
  - P90-10136 06
- NASA and Honeywell Conduct Automated Landing Research
  - NASA Release: 90-151
  - P90-10151 06
- Keynote Address to the National Rocket Propulsion Symposium, Alexandria, Virginia
  - NASA 10168 05

#### FLUID MECHANICS
- SA Aerodynamics
- NASA Engineers and Marine Scientists Test Bay Clean-Up Technology
  - NASA Release: 90-56
  - P90-10056 06

#### FOOD
- S. Space Ration

#### FOOD TECHNOLOGY
- Making Fresh Vegetables on Long-Duration Space Travel
  - NASA Release: 90-82
  - P90-10082 06
- NASA TADOCORPS Sign Information Exchange Agreement
  - NASA Release: 90-148
  - P90-10148 06

#### FORD AEROSPACE CORPORATION
- Advanced Tracking and Data Relay Satellite Phase II RFP Released
  - NASA Release: 90-21
  - P90-10021 06

#### FORD AEROSPACE CORP.
- NASA Chooses Industry/University In-Space Technology Studies
  - NASA Release: 90-88
  - P90-10088 06

#### FUEL CONSERVATION
- NASA F-16XL Aircraft Laminar Flow Studies
  - Set to Begin
    - NASA Release: 90-59
    - P90-10059 06
- NASA Sets Demonstration for Future Energy
  - NASA Release: 90-136
  - P90-10136 06

#### FUEL SYSTEMS
- S. External Tank
ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED [NASA RELEASE-90-113] P90-10113 06
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-127] P90-10127 06
NEW TREATMENT EASES EFFECTS OF SPACE MOTION SICKNESS [NASA RELEASE-90-155] P90-10155 06
REVIEW OF U.S./JAPAN SPACE COOPERATION [NASA RELEASE-90-156] P90-10156 06
NASA AWARDS COMMERCIAL MIDDEK AUGMENTATION MODULE CONTRACT [NASA RELEASE-90-157] P90-10157 06
AERONAUT SPRINGER RETIRES FROM NASA, MARINE CORPS [NASA RELEASE-90-159] P90-10159 06
NASA LEADERSHIP MEETS WITH TASK FORCE [NASA RELEASE-90-161] P90-10161 06
JSC S. JOHNSON SPACE CENTER, HOUSTON, TEX.
JUPITER /PLANET/ PIONEER 11 PASSES NEPTUNE'S ORBIT, LEAVES SOLAR SYSTEM [NASA RELEASE-90-29] P90-10029 06
ULYSSES SPACECRAFT ARRIVES AT CAPE TO BEGIN LAUNCH PREPARATIONS [NASA RELEASE-90-70] P90-10070 06
PIONEER 10 MARKS NEW EPOCH IN SOLAR SYSTEM EXPLORATION [NASA RELEASE-90-125] P90-10125 06
KANSAS STATE UNIV., MANHATTAN NASA SELECTS CENTERS FOR LIFE SCIENCES RESEARCH [NASA RELEASE-90-135] P90-10135 06
THE EXPLORATION OF SPACE ALFRED M. LINDON LECTURE; KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS [NASA RELEASE-90-193] P90-10193 06
KAPTON CLOSE-UP INSPECTION OF LONG DURATION EXPOSURE FACILITY BEGINS [NASA RELEASE-90-23] P90-10023 06
KENNEDY SPACE CENTER, COCOA BEACH, FLA. TRULY MAKES KEY APPOINTMENTS [NASA RELEASE-90-31] P90-10003 06
LONG DURATION EXPOSURE FACILITY SHOWS FEW SURPRISES [NASA RELEASE-90-111] P90-10011 06
Gamma-ray observatory set for shipment to Florida launch site [NASA RELEASE-90-19] P90-10019 06
CLOSE-UP INSPECTION OF LONG DURATION EXPOSURE FACILITY BEGINS [NASA RELEASE-90-23] P90-10023 06
ROSAT SPACECRAFT ARRIVES AT FLORIDA LAUNCH SITE [NASA RELEASE-90-27] P90-10027 06
COMPUTERIZED MEDICAL REFERENCE HAS SPACE AND EARTH APPLICATIONS [NASA RELEASE-90-30] P90-10030 06
ASTRONOMICAL TELESCOPES FOR NASA SPACECRAFT ARRIVE AT GODDARD [NASA RELEASE-90-34] P90-10034 06
NASA ADMINISTRATOR INVITES LOCAL STUDENTS TO SHUTTLE LAUNCHES [NASA RELEASE-90-48] P90-10048 06
APOLLO 204 SPACECRAFT TO BE STORED AT CAPE CANAVERAL AF STATION [NASA RELEASE-90-60] P90-10060 06
Two communications satellites to be launched in May [NASA RELEASE-90-64] P90-10064 06
APOLLO 204 CAPSULE TO REMAIN AT THE LANGLY RESEARCH CENTER [NASA RELEASE-90-76] P90-10076 06
NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION [NASA RELEASE-90-89] P90-10089 06
U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY [NASA RELEASE-90-102] P90-10102 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
LANSAT SATELLITES USA AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY [NASA RELEASE-90-102] P90-10102 06
LANGLEY RESEARCH CENTER, HAMPTON, VA. RESEARCH EXPERIMENTS TO MONITOR COLUMBIA RE-ENTRY [NASA RELEASE-90] P90-10008 06
INTERNATIONAL CONFERENCE ADDRESSES GLOBAL BURNING [NASA RELEASE-90-39] P90-10039 06
STUDY DETECTS POSSIBLE OZONE LOSS OVER ARCTIC [NASA RELEASE-90-41] P90-10041 06
NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN-UP TECHNOLOGY [NASA RELEASE-90-56] P90-10056 06
NASA F-16XL AIRCRAFT LAMINAR FLOW STUDIES SET TO BEGIN [NASA RELEASE-90-59] P90-10059 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
TWO COMMUNICATIONS SATELLITES TO BE LAUNCHED IN MAY [NASA RELEASE-90-64] P90-10064 06
APOLLO 204 CAPSULE TO REMAIN AT THE LANGLY RESEARCH CENTER [NASA RELEASE-90-76] P90-10076 06
NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION [NASA RELEASE-90-89] P90-10089 06
U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY [NASA RELEASE-90-102] P90-10102 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
NASA TO CONDUCT THRUST VECTORIZATION RESEARCH FLIGHTS [NASA RELEASE-90-136] P90-10136 06
NASA AND HONEYWELL CONDUCT AUTOMATED LANDING RESEARCH [NASA RELEASE-90-153] P90-10153 06

SUBJECT INDEX
CRRES LAUNCH DELAYED ONE TO TWO WEEKS [NASA RELEASE-90-98] P90-10098 06
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-127] P90-10127 06
SEVENTH ANNUAL NASA/CONTRACTORS CONFERENCE TOTAL QUALITY LEADERSHIP ORLANDO, FLORIDA [NASA RELEASE-90-199] P90-10199 06
KEVLAR TRADEMARK/ CLOSE-UP INSPECTION OF LONG DURATION EXPOSURE FACILITY BEGINS [NASA RELEASE-90-23] P90-10023 06
KSC S. JOHNNIE SPACE CENTER, COCOA BEACH, FLA.
KWALEN ATOLL, MARSHALL ISLANDS NASA TO CONDUCT SOUNDING ROCKET CAMPAIGN IN KWALEN [NASA RELEASE-90-93] P90-10093 06

L. B. JOHNSON SPACE CENTER, HOUSTON, TEX. S. JOHNNIE SPACE CENTER, HOUSTON, TEX
L'GARDE, INC., CALIF. NASA CHOOSES INDUSTRY/UNIVERSITY IN SPACE TECHNOLOGY STUDIES [NASA RELEASE-90-98] P90-10098 06
LAMINAR FLOW CONTROL NASA F-16XL AIRCRAFT LAMINAR FLOW STUDIES SET TO BEGIN [NASA RELEASE-90-59] P90-10059 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
LANDSAT SATELLITES USA AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY [NASA RELEASE-90-102] P90-10102 06
LANGLEY RESEARCH CENTER, HAMPTON, VA. RESEARCH EXPERIMENTS TO MONITOR COLUMBIA RE-ENTRY [NASA RELEASE-90] P90-10008 06
INTERNATIONAL CONFERENCE ADDRESSES GLOBAL BURNING [NASA RELEASE-90-39] P90-10039 06
STUDY DETECTS POSSIBLE OZONE LOSS OVER ARCTIC [NASA RELEASE-90-41] P90-10041 06
NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN-UP TECHNOLOGY [NASA RELEASE-90-56] P90-10056 06
NASA F-16XL AIRCRAFT LAMINAR FLOW STUDIES SET TO BEGIN [NASA RELEASE-90-59] P90-10059 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
TWO COMMUNICATIONS SATELLITES TO BE LAUNCHED IN MAY [NASA RELEASE-90-64] P90-10064 06
APOLLO 204 CAPSULE TO REMAIN AT THE LANGLY RESEARCH CENTER [NASA RELEASE-90-76] P90-10076 06
NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION [NASA RELEASE-90-89] P90-10089 06
U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY [NASA RELEASE-90-102] P90-10102 06
FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY [NASA RELEASE-90-115] P90-10115 06
NASA TO CONDUCT THRUST VECTORIZATION RESEARCH FLIGHTS [NASA RELEASE-90-136] P90-10136 06
NASA AND HONEYWELL CONDUCT AUTOMATED LANDING RESEARCH [NASA RELEASE-90-153] P90-10153 06

A-16
LUNAR EXPLORATION

TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ADMIRAL TRULY'S BUDGET NEWS CONFERENCE

MANNED SPACE FLIGHT

MANNED MANEUVERING UNIT

MAGNETIC FIELDS

LUNAR RESOURCES

LUNAR SAMPLES

LUNAR EXPLORATION

PROPULSION SYMPOSIUM; CONFERENCE ADMINISTRATION: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA SAYS [NASA RELEASE-90-81 P90-10081 06 EXPLORATION OUTREACH PROGRAM]

NASA NAVY [NASA RELEASE-90-531 P90-10053 06 MANAGING THE MODERN COCKPIT; DALLAS, TEXAS]

NASA SAYS [NASA RELEASE-90-1201 P90-10120 06 DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON ORBITAL MANEUVERING VEHICLE PROGRAM IS TERMINATED]

NASA SAYS [NASA RELEASE-90-95 P90-10095 06 NASA TO CONDUCT SOUNDING ROCKET CAMPAIGN IN KWAJALEIN]

NASA SAYS [NASA RELEASE-90-93 P90-10093 06 CRRES LAUNCH SET FOR JULY TO STUDY EARTHSPACE]

NASA SAYS [NASA RELEASE-90-94 P90-10094 06 CRRES LAUNCH SET FOR JULY TO STUDY EARTHSPACE]

NASA SAYS [NASA RELEASE-90-97 P90-10097 06 NASA, CEP AND STATE OF WEST VIRGINIA]

NASA SAYS [NASA RELEASE-90-110 P90-10110 06 ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED]

NASA SAYS [NASA RELEASE-90-113 P90-10113 06 NASA TO TEST GAS IONIZATION THEORY OVER SOUTH PACIFIC]

NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-120 P90-10120 06 NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM]

NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-127 P90-10127 06 NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06 ORBITAL MANEUVERING VEHICLE PROGRAM IS TERMINATED]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06]

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR [NASA RELEASE-90-68 P90-10068 06]
PLANETARY MAPPING

NEW ADVANCED LIFE SUPPORT DIVISION ESTABLISHED AT NASA AMES
[NASA RELEASE 90-73] P90-10023 05

NASA ANNOUNCED NEXT STEPS IN SPACE EXPLORATION OUTREACH PROGRAM
[NASA RELEASE 90-91] P90-10081 06

NASA'S JET PROPULSION LABORATORY TESTS PLANETARY ROVER
[NASA RELEASE 90-85] P90-10085 06

U.S. AND U.S.S.R. CONTINUE SPACE BIOLOGY AND MEDICINE CO-OPERATION
[NASA RELEASE 90-100] P90-10130 06

NASA BUDGET PRESS CONFERENCE P90-10166 06

ADDRESS TO THE NATIONAL SPACE CIVIL: L'ENFANT PLAZA HOTEL, WASHINGTON, D.C.
[P90-10171 05

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE TOWN HALL OF CALIFORNIA, LOS ANGELES, CALIFORNIA P90-10172 05

28TH GODDARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C. P90-10174 05

OVERVIEW MAJOR SPACE PROGRAMS, PRESENTED TO TREASURY EXECUTIVE INSTITUTE P90-10179 05

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE DOWNTOWN ASSOCIATION, NEW YORK, NEW YORK P90-10182 05

MISSISSIPPI STATE UNIVERSITY FALL FACULTY CONVOCATION P90-10185 05

SECOND INTERNATIONAL SYMPOSIUM ON SPACE INFORMATION SYSTEMS: PASADENA, CALIFORNIA P90-10186 05

MYTH AND REALITY NASA AND THE SPACE EXPLORATION INITIATIVE: HUNTSVILLE, ALABAMA P90-10187 05

NASA HEADQUARTERS HONOR AWARDS CEREMONY P90-10188 05

SEVENTH ANNUAL NASA/CONTRACTORS CONFERENCE: TOTAL QUALITY LEADERSHIP ORLANDO, FLORIDA P90-10190 05

THE EXPLORATION OF SPACE: ALFRED M. LANDON LECTURE: KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS P90-10193 05

PLANETARY MAPPING

CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA [NASA RELEASE 90-69] P90-10069 06

PLANETARY RINGS S SATURN RINGS

PLANETARY SURFACES

CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA [NASA RELEASE 90-69] P90-10069 06

PIONEER STUDIES LIGHTNING ON VENUS [NASA RELEASE 90-101] P90-10101 06

PLANETS

S JUPITER /PLANE/ S SATURN /PLANE/

PLANTS /BOTANY/

MAKING FRESH VEGETABLES ON LONG DURATION SPACE TRAVEL [NASA RELEASE 90-82] P90-10082 06

PLASMA CLOUD NASA ROSAT IMAGE RETURNS SUCCESSFUL FIRST LIGHT PICTURES [NASA RELEASE 90-133] P90-10133 06

PLASTICS

S KEVLAR /TRADEMARK/ S TEFLON /TRADEMARK/

PLATES /TECTONICS/

JOINT NASA, USGS AND SOVIET TEAM TO STUDY RUSSIAN VOLCANOES [NASA RELEASE 90-124] P90-10124 06

POLAR CAPS

S SOLAR POLAR CAPS

POLAR PLATFORM /SPACE STATION/

S SPACE STATION POLAR PLATFORM

POLAR REGIONS

S ANTARCTICA

POLICIES

S COMMERCIAL SPACE POLICY

POLUTION

S AIR POLLUTION S WATER POLLUTION

POWER

S FUSION POWER S SPACEDRIVE POWER SUPPLIES

PRATT AND WHITNEY AIRCRAFT

DOD/NASA ANNOUNCE NATIONAL AERO-SPACE PLANE CONTRACTOR TEAM [NASA RELEASE 90-71] P90-10071 06

ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED [NASA RELEASE 90-113] P90-10113 06

PRESIDENTIAL REPORTS

VICE PRESIDENT EMPHASIZES WHITE HOUSE SPACE COMMITMENT [NASA RELEASE 90-222] P90-10022 06

PRIVATE SECTOR COOPERATION S INDUSTRIAL COOPERATION

PROCUREMENT

S CONTRACTING AND PROCUREMENT

PRODUCTIVITY

NASA PRESENTS EXCELLENCE AWARD TO ROCKWELL AND MAROCCA [NASA RELEASE 90-145] P90-10145 06

PROGRAM MANAGEMENT

ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED [NASA RELEASE 90-113] P90-10113 06

NASA LEADERSHIP MEETS WITH TASK FORCE [NASA RELEASE 90-161] P90-10161 06

TRULY TO IMPLEMENT IMMEDIATELY SOME COMMITTEE RECOMMENDATIONS [NASA RELEASE 90-162] P90-10162 06

PROJECT MANAGEMENT

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE 90-44] P90-10044 06

DOO/NASA ANNOUNCE NATIONAL AERO-SPACE PLANE CONTRACTOR TEAM [NASA RELEASE 90-71] P90-10071 06

GOODSPEED SPACE FLIGHT CENTER ENGINEERING COLLOQUIUM CONTRACTING OUT--HAS NASA GONE TOO FAR? REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR BEFORE THE AVIATION SPACE WRITERS P90-10178 05

PROJECT PLANNING

PRESS CONFERENCE OUTREACH PROGRAM P90-10181 05

PROJECT WATER WINGS

NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN UP TECHNOLOGY [NASA RELEASE 90-58] P90-10058 06

PROPELLANT TANKS S EXTERNAL TANK

PROPELLION

S NUCLEAR PROPELLON

PROSTHETIC DEVICES

NASA TECHNOLOGIES BENEFIT MEDICAL ORTHOPEDIC SCIENCE [NASA RELEASE 90-142] P90-10142 06

PUBLIC RELATIONS

RICHARD NAMED DEPUTY ASSOCIATE ADMINISTRATOR FOR COMMUNICATIONS [NASA RELEASE 90-55] P90-10055 06

PUBLICATIONS

S COMMERCE BUSINESS DAILY S NASA TECH BRIEFS S PRESIDENTIAL REPORTS S TECHNOLOGY SURVEYS

PURDUE UNIV., LAFAYETTE, IND. NASA SELECTS CENTERS FOR LIFE SCIENCES RESEARCH [NASA RELEASE 90-125] P90-10125 06

NADA TO USE WORLD'S FASTEST SUPERCOMPUTER [NASA RELEASE 90-151] P90-10151 06

QUALITY ASSURANCE

NASA RENAMES EXCELLENCE AWARD FOR GEORGE M. LOW [NASA RELEASE 90-143] P90-10143 06

NASA PRESENTS EXCELLENCE AWARD TO ROCKWELL AND MAROCCA [NASA RELEASE 90-69] P90-10145 06

SEVENTH ANNUAL NASA/CONTRACTORS CONFERENCE: TOTAL QUALITY LEADERSHIP ORLANDO, FLORIDA P90-10190 05

RADAR MAPPING

MAGELLAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS [NASA RELEASE 90-141] P90-10141 06

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION [NASA RELEASE 90-150] P90-10150 06

RADIATION

S NEAR INFRARED RADIATION S SOLAR RADIATION S SPACE RADIATION S ULTRAVIOLET RADIATION S X-RAYS

RADIATION EFFECTS

LONG DURATION EXPOSURE FACILITY SHOWS FEW SURPRISES [NASA RELEASE 90-111] P90-10011 06

CLOSE-UP INSPECTION OF LONG DURATION EXPOSURE FACILITY BEGINS [NASA RELEASE 90-23] P90-10023 06

RADIATION MONITORING EXP. /SPACE SHUTTLE/ DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE 90-44] P90-10044 06

RADIO COMMUNICATIONS

MAGELLAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS [NASA RELEASE 90-141] P90-10141 06

RADIO TRANSMISSION

PIONEER 10 MARKS NEW EPOCH IN SOLAR SYSTEM EXPLORATION [NASA RELEASE 90-125] P90-10125 06

RADIONOMETERS

S DIFFERENTIAL MICROWAVE RADIOMETER S SOLAR BACKSCATTER UV SPECTRAL RADIOMETER

RAIN FORESTS

INTERNATIONAL CONFERENCE ADDRESSES GLOBAL BURNING [NASA RELEASE 90-39] P90-10039 06

NASA STUDIES EFFECT OF TROPICAL FOREST BURNING ON GREENHOUSE GAS [NASA RELEASE 90-67] P90-10067 06

RAND CORP.

NASA ADMINISTRATOR ANNOUNCED EXPLORATION OUTREACH PROGRAM [NASA RELEASE 90-74] P90-10074 06

RAND CORP., SANTA MONICA, CALIF.

NASA ANNOUNCED NEXT STEPS IN SPACE EXPLORATION OUTREACH PROGRAM [NASA RELEASE 90-81] P90-10081 06

RESPONSE TO SEI OUTREACH PROGRAM STRONG. NASA SAYS [NASA RELEASE 90-114] P90-10114 06

RECYCLING

FIRING OLD SHUTTLE ROCKET MOTORS HAS BENEFITS FOR FUTURE [NASA RELEASE 90-61] P90-10066 06

REDUCED GRAVITY

S MICROGRAVITY

SUBJECT INDEX
REENTRY HEATING
RESEARCH EXPERIMENTS TO MONITOR COLUMBIA RE-ENTRY
[NASA RELEASE-90-8] P90-10008 05

REGIONAL DISSEMINATION CENTERS, NASA
S INDUSTRIAL APPLICATIONS CENTERS, NASA
S QUALITY ASSURANCE

REMOTE SENSING
NASA SELECTS PROJECTS FOR COMMERCIAL USE OF REMOTE SENSING
[NASA RELEASE-90-164] P90-10164 05
TALKING POINTS FOR 45TH ANNIVERSARY, WALLSOP FLIGHT FACILITY, GODDARD SPACE FLIGHT CENTER P90-10183 05
MISSION TO PLANET EARTH, EROS DATA CENTER, DEDICATION, SIOUX FALLS, SD P90-10184 05
REMOTE SENSING TRAINING PROGRAM
INTERNATIONAL SPACE YEAR, EDUCATION CONFERENCE TO BE HELD IN FRANCE
[NASA RELEASE-90-16] P90-10016 05
RENSSELAER POLYTECHNIC INST., TROY, N.Y.
NASA AWARES EDUCATION RESEARCH GRANTS
[NASA RELEASE-90-126] P90-10226 05
SEVENTH ANNUAL NASA CONTRACTORS CONFERENCE, TOTAL QUALITY LEADERSHIP, ORLANDO, FLORIDA P90-10190 05
REFURBISHMENTS
SHUTTLE CREW COMMANDERS REASSIGNED
[NASA RELEASE-90-96] P90-10096 05
REQUEST FOR PROPOSALS
ADVANCED TRACKING AND DATA RELAY SATELLITE PHASE B RFP RELEASED
[NASA RELEASE-90-2] P90-10002 05
PROPOSALS SOUGHT FOR SATELLITE SERVICER FLIGHT DEMONSTRATION
[NASA RELEASE-90-12] P90-1012 05
NASA CALLS FOR MIDDECK LOCKER MODULAR PROPOSALS
[NASA RELEASE-90-46] P90-10046 05
NASA ADMINISTRATOR ANNOUNCED EXPLORATION OUTREACH PROGRAM
[NASA RELEASE-90-75] P90-10075 05
SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM PHASE II ANNOUNCED
[NASA RELEASE-90-75] P90-10075 05
NASA ANNOUNCES NEXT STEPS IN SPACE EXPLORATION OUTREACH PROGRAM
[NASA RELEASE-90-81] P90-10081 05

RESEARCH AND DEVELOPMENT
SA AERONAUTICAL RESEARCH
SA MATERIALS RESEARCH
SA SPACE RESEARCH AND TECHNOLOGY SA SPACE SCIENCE AND APPLICATIONS PROGRAM
TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ADMIRAL TRULY'S BUDGET NEWS CONFERENCE
P90-10176 05
STATEMENT OF RICHARD H. TRULY BEFORE THE SUBCOMMITTEE ON SCIENCE, TECHNOLOGY AND SPACE, COMMITTEE ON COMMERCE, SCIENCE, AND TRANSPORTATION, UNITED STATES SENATE
P90-10173 05

RESEARCH PROJECTS
NASA SIGNS AGREEMENT WITH CONSORTIUM OF MINORITY UNIVERSITIES
[NASA RELEASE-90-79] P90-10079 05
NASA SELECTS CENTERS FOR LIFE SCIENCES RESEARCH
[NASA RELEASE-90-155] P90-10155 05
NASA SELECTS SMALL BUSINESS INNOVATION RESEARCH PROPOSALS
[NASA RELEASE-90-144] P90-10144 05
NASA, TIA CORPS SIGN INFORMATION EXCHANGE AGREEMENT
[NASA RELEASE-90-140] P90-10140 05
NEW AMES RESEARCH CENTER DEPUTY DIRECTOR TO HEAD AMES-DYDREN
[NASA RELEASE-90-149] P90-10149 05
ADDRESS TO THE NATIONAL SPACE CLUB, L'ENFANT PLAZA HOTEL, WASHINGTON, D.C.
P90-10170 05
28TH GODDARD MEMORIAL SYMPOSIUM SESSION 1: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05
28TH GODDARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05
SECOND INTERNATIONAL SYMPOSIUM ON SPACE INFORMATION SYSTEMS, PASADENA, CALIFORNIA
P90-10188 05
MYTH AND REALITY NASA AND THE SPACE EXPLORATION INITIATIVE, HUNTSVILLE, ALABAMA
P90-10187 05
THE EXPLORATION OF SPACE: ALFRED M. LANDON LECTURE, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS
P90-10193 05

RESEARCH PROPOSALS
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE
[NASA RELEASE-90-66] P90-10066 05
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM
[NASA RELEASE-90-71] P90-10071 05
NASA CHOOSES INDUSTRY/UNIVERSITY IN-SPACE TECHNOLOGY STUDIES
[NASA RELEASE-90-88] P90-10088 05
NASA SELECTS SMALL BUSINESS INNOVATION RESEARCH PROPOSALS
[NASA RELEASE-90-144] P90-10144 05
NASA SELECTS SMALL BUSINESS INNOVATION RESEARCH PROJECTS
[NASA RELEASE-90-152] P90-10152 05
NASA SELECTS PROJECTS FOR COMMERCIAL USE OF REMOTE SENSING
[NASA RELEASE-90-164] P90-10164 05

RESEARCH FACILITIES
NASA'S FIRST 'A' MARKS 75 YEARS OF ACHIEVEMENT
[NASA RELEASE-90-35] P90-10035 05
NASA CALLS FOR MIDDECK LOCKER MODULE PROPOSALS
[NASA RELEASE-90-46] P90-10046 05

REPLAYS
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM
[NASA RELEASE-90-127] P90-10127 05

RETIREMENT
ASTRONAUT MULLANE TO RETIRE FROM NASA, AIR FORCE
[NASA RELEASE-90-28] P90-10028 05
VETERAN SHUTTLE ASTRONAUT WILLIAMS TO RETIRE FROM NASA, NAVY
[NASA RELEASE-90-3] P90-1003 05
GOODFORD SPACE FLIGHT CENTER DIRECTOR PLANS RETIREMENT
[NASA RELEASE-90-50] P90-10050 05
SPACE FLIGHT'S MAHON TO RETIRE
[NASA RELEASE-90-76] P90-10116 05
ASTRONAUT MCCULLEY TO RETIRE FROM THE NAVY AND LEAVE NASA
[NASA RELEASE-90-119] P90-10119 05
ASTRONAUT MCCANDLESS RETIRES FROM NASA,
MARINE CORPS
[NASA RELEASE-90-121] P90-10121 05
ASTRONAUT SPRINGER RETIRES FROM NASA,
MARINE CORPS
[NASA RELEASE-90-159] P90-10159 05

RFP
S REQUEST FOR PROPOSALS
S SPACE TRANSPORTATION

RICE UNIV., HOUSTON, TEX.
NASA TO USE WORLD'S FASTEST SUPERcomputer
[NASA RELEASE-90-151] P90-10151 05

ROBOTICS
SA FLIGHT TELEROBOTIC SERVICER
NASA'S JET PROPULSION LABORATORY TESTS PLANETARY ROVER
[NASA RELEASE-90-85] P90-10085 05
NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION
[NASA RELEASE-90-99] P90-10099 05
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY, ECONOMIC CLUB OF DETROIT, DEARBORN, MICHIGAN
P90-10170 05
28TH GODDARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05

ROBOTS
CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA
[NASA RELEASE-90-69] P90-10069 05

ROCHESTER UNIV., N.Y.
NASA SELECTS CENTERS FOR LIFE SCIENCES RESEARCH
[NASA RELEASE-90-135] P90-10135 05

ROCKET ENGINE TEST SITE
FIRING 'OLD' SHUTTLE ROCKET MOTORS HAS BENEFITS FOR FUTURE
[NASA RELEASE-90-61] P90-10006 05

ROCKET ENGINES
S ADVANCED SOLID ROCKET MOTOR /SHUTTLE/ S SOLID PROPELLANT ROCKET ENGINES S SPACE TRANSPORTATION MAIN ENGINE

ROCKETDYNE
DOD/NASA ANNOUNCE NATIONAL AERO-SPACE PLANE CONTRACTOR TEAM
[NASA RELEASE-90-71] P90-10071 05
ADVANCED LAUNCH SYSTEM ROCKET ENGINE DEFINED
[NASA RELEASE-90-113] P90-10113 05

ROCKETDYNE, CANOGA PARK, CALIF.
NINE FIRMS NAMED NASA EXCELLENCE AWARD FINALISTS
[NASA RELEASE-90-62] P90-10062 05

ROCKETS
S LAUNCH VEHICLES S SOUNDING ROCKETS

ROCKWELL INTERN. CORP., CANOGA PARK, CA.
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM
[NASA RELEASE-90-127] P90-10127 05

A-25
SATELLITE COMMUNICATIONS

SATELLITE CONFIGURATIONS

NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-18</td>
<td>S-BAND COMMUNICATIONS SYSTEM</td>
</tr>
<tr>
<td>NASA Release-90-19</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
<tr>
<td>NASA Release-90-20</td>
<td>INASA RELEASE-90-181</td>
</tr>
</tbody>
</table>

SATELLITE IMAGERY

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-94</td>
<td>SATELLITE IMAGERY</td>
</tr>
</tbody>
</table>

SATELLITE INSTRUMENTS

SA DIFFERENTIAL MICROWAVE RADIOMETER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1017</td>
<td>SATELLITE INSTRUMENTS</td>
</tr>
</tbody>
</table>

ROCKET INTERNATIONAL, BIRMINGHAM, ALA.

ROCKET INTERNATIONAL CORPORATION, PALMDALE, CA.

ROtring VEHICLES

NASA’S JET PROPULSION LABORATORY TESTS PLANETARY ROVER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-85</td>
<td>ROVING VEHICLES</td>
</tr>
</tbody>
</table>

RUST INTERNATIONAL, BIRMINGHAM, ALA.

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-68</td>
<td>RUST INTERNATIONAL, BIRMINGHAM, ALA.</td>
</tr>
</tbody>
</table>

S-BAND COMMUNICATIONS SYSTEM

MEAGELAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-141</td>
<td>S-BAND COMMUNICATIONS SYSTEM</td>
</tr>
</tbody>
</table>

SAFETY SYSTEMS

S AIRCRAFT SAFETY

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1014</td>
<td>SAFETY SYSTEMS</td>
</tr>
</tbody>
</table>

SATELLITE COMMUNICATION

NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-18</td>
<td>SATELLITE COMMUNICATION</td>
</tr>
<tr>
<td>NASA Release-90-19</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
<tr>
<td>NASA Release-90-20</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
</tbody>
</table>

SATELLITE IMAGERY

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-94</td>
<td>SATELLITE IMAGERY</td>
</tr>
</tbody>
</table>

SATELLITE INSTRUMENTS

SA DIFFERENTIAL MICROWAVE RADIOMETER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1017</td>
<td>SATELLITE INSTRUMENTS</td>
</tr>
</tbody>
</table>

ROCKET INTERNATIONAL, BIRMINGHAM, ALA.

ROCKET INTERNATIONAL CORPORATION, PALMDALE, CA.

ROVING VEHICLES

NASA’S JET PROPULSION LABORATORY TESTS PLANETARY ROVER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-85</td>
<td>ROVING VEHICLES</td>
</tr>
</tbody>
</table>

RUST INTERNATIONAL, BIRMINGHAM, ALA.

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-68</td>
<td>RUST INTERNATIONAL, BIRMINGHAM, ALA.</td>
</tr>
</tbody>
</table>

S-BAND COMMUNICATIONS SYSTEM

MEAGELAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-141</td>
<td>S-BAND COMMUNICATIONS SYSTEM</td>
</tr>
</tbody>
</table>

SAFETY SYSTEMS

S AIRCRAFT SAFETY

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1014</td>
<td>SAFETY SYSTEMS</td>
</tr>
</tbody>
</table>

SATELLITE COMMUNICATION

NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-18</td>
<td>SATELLITE COMMUNICATION</td>
</tr>
<tr>
<td>NASA Release-90-19</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
<tr>
<td>NASA Release-90-20</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
</tbody>
</table>

SATELLITE IMAGERY

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-94</td>
<td>SATELLITE IMAGERY</td>
</tr>
</tbody>
</table>

SATELLITE INSTRUMENTS

SA DIFFERENTIAL MICROWAVE RADIOMETER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1017</td>
<td>SATELLITE INSTRUMENTS</td>
</tr>
</tbody>
</table>

ROCKET INTERNATIONAL, BIRMINGHAM, ALA.

ROCKET INTERNATIONAL CORPORATION, PALMDALE, CA.

ROVING VEHICLES

NASA’S JET PROPULSION LABORATORY TESTS PLANETARY ROVER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-85</td>
<td>ROVING VEHICLES</td>
</tr>
</tbody>
</table>

RUST INTERNATIONAL, BIRMINGHAM, ALA.

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-68</td>
<td>RUST INTERNATIONAL, BIRMINGHAM, ALA.</td>
</tr>
</tbody>
</table>

S-BAND COMMUNICATIONS SYSTEM

MEAGELAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-141</td>
<td>S-BAND COMMUNICATIONS SYSTEM</td>
</tr>
</tbody>
</table>

SAFETY SYSTEMS

S AIRCRAFT SAFETY

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1014</td>
<td>SAFETY SYSTEMS</td>
</tr>
</tbody>
</table>

SATELLITE COMMUNICATION

NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-18</td>
<td>SATELLITE COMMUNICATION</td>
</tr>
<tr>
<td>NASA Release-90-19</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
<tr>
<td>NASA Release-90-20</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
</tbody>
</table>

SATELLITE IMAGERY

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-94</td>
<td>SATELLITE IMAGERY</td>
</tr>
</tbody>
</table>

SATELLITE INSTRUMENTS

SA DIFFERENTIAL MICROWAVE RADIOMETER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1017</td>
<td>SATELLITE INSTRUMENTS</td>
</tr>
</tbody>
</table>

ROCKET INTERNATIONAL, BIRMINGHAM, ALA.

ROCKET INTERNATIONAL CORPORATION, PALMDALE, CA.

ROVING VEHICLES

NASA’S JET PROPULSION LABORATORY TESTS PLANETARY ROVER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-85</td>
<td>ROVING VEHICLES</td>
</tr>
</tbody>
</table>

RUST INTERNATIONAL, BIRMINGHAM, ALA.

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-68</td>
<td>RUST INTERNATIONAL, BIRMINGHAM, ALA.</td>
</tr>
</tbody>
</table>

SATELLITE COMMUNICATION

NASA SELECTS EIGHT RESEARCH SATELLITE COMMUNICATIONS PROPOSALS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-18</td>
<td>SATELLITE COMMUNICATION</td>
</tr>
<tr>
<td>NASA Release-90-19</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
<tr>
<td>NASA Release-90-20</td>
<td>SATELLITE COMMUNICATIONS APPLS. RES. PRGM.</td>
</tr>
</tbody>
</table>

SATELLITE IMAGERY

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-94</td>
<td>SATELLITE IMAGERY</td>
</tr>
</tbody>
</table>

SATELLITE INSTRUMENTS

SA DIFFERENTIAL MICROWAVE RADIOMETER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-1017</td>
<td>SATELLITE INSTRUMENTS</td>
</tr>
</tbody>
</table>

ROCKET INTERNATIONAL, BIRMINGHAM, ALA.

ROCKET INTERNATIONAL CORPORATION, PALMDALE, CA.

ROVING VEHICLES

NASA’S JET PROPULSION LABORATORY TESTS PLANETARY ROVER

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-85</td>
<td>ROVING VEHICLES</td>
</tr>
</tbody>
</table>

RUST INTERNATIONAL, BIRMINGHAM, ALA.

NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA Release-90-68</td>
<td>RUST INTERNATIONAL, BIRMINGHAM, ALA.</td>
</tr>
</tbody>
</table>
SUBJECT INDEX

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-10122 06
1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS
[NASA RELEASE-90-137] P90-10137 06

STS-42
ASTRONAUT CREW NAMED TO INTERNATIONAL MICROGRAVITY MISSION
[NASA RELEASE-90-1] P90-10001 06
SCIENCE PAYLOAD COMMANDERS NAMED; CARTER REPLACES CLEE ON IML-1
[NASA RELEASE-90-15] P90-10015 06
SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45)
[NASA RELEASE-90-72] P90-10072 06

STS-43
NASA REVISES SPACE SHUTTLE MANIFEST
[NASA RELEASE-90-37] P90-10037 06
SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45)
[NASA RELEASE-90-72] P90-10072 06

STS-44
SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45)
[NASA RELEASE-90-72] P90-10072 06
SHUTTLE CREW COMMANDERS REASSIGNED
[NASA RELEASE-90-96] P90-10096 06
SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45)
[NASA RELEASE-90-72] P90-10072 06

STS-45
SCIENCE PAYLOAD COMMANDERS NAMED; CARTER REPLACES CLEE ON IML-1
[NASA RELEASE-90-13] P90-10013 06
NASA REVISES SPACE SHUTTLE MANIFEST
[NASA RELEASE-90-37] P90-10037 06
SHUTTLE CREW COMMANDERS REASSIGNED
[NASA RELEASE-90-96] P90-10096 06
NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-163] P90-10163 06

STS-47
SCIENCE PAYLOAD COMMANDERS NAMED; CARTER REPLACES CLEE ON IML-1
[NASA RELEASE-90-13] P90-10013 06
NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-163] P90-10163 06

STS-48
NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-158] P90-10158 06
NASA REVISES SPACE SHUTTLE MANIFEST
[NASA RELEASE-90-163] P90-10163 06

STS-49
NASA RELEASES DECEMBER 1990 MIXED FLEET MANIFEST
[NASA RELEASE-90-158] P90-10158 06
NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-163] P90-10163 06

STS-50
NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-163] P90-10163 06

STS-53
NASA SELECTS MICROGRAVITY MISSION PAYLOAD SPECIALIST CANDIDATES
[NASA RELEASE-90-109] P90-10109 06

SUBSYSTEMS
S CANARD SUBSYSTEM
S CONTROL SUBSYSTEMS

SUPERCOMPUTERS
S A TACONITE DELTA SUPERCOMPUTER
NASA TO USE WORLD'S FASTEST SUPERCOMPUTER
[NASA RELEASE-90-151] P90-10151 06
EXCEPTS FROM REMARKS PREPARED FOR DELIVERY ECONOMIC CLUB OF DETROIT DEARBORL, MICHIGAN P90-10170 05
ADDRESS TO THE NATIONAL SPACE CLUB LEVINGTON PLAZA HOTEL, WASHINGTON, D.C. P90-10171 05

SUPERNOVA
SA SUPERNOVA 1987A
NASA ROSAT IMAGETEUM INCREASES SUCCESSFUL FIRST LIGHT PICTURES
[NASA RELEASE-90-133] P90-10133 06
SUPERNOVA 1987A
HUBBLE SPACE TELESCOPE RESOLVES GASEOUS RING AROUND SUPERNOVA
[NASA RELEASE-90-117] P90-10117 06
SUPERNUMEROIC AIRCRAFT
NASA AND FAA SIGN AVIATION RESEARCH AGREEMENTS
[NASA RELEASE-90-131] P90-10131 06
EXCEPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB, ARLINGTON, VIRGINIA P90-10177 05
SUPERNUMEROIC FLIGHT
NASA ACQUIRES SUPERNUMEROIC SR-71S ON LOAN FROM USAF
[NASA RELEASE-90-24] P90-10024 06
NASA F-16XL AIRCRAFT LAMINAR FLOW STUDIES SET TO BEGIN
[NASA RELEASE-90-59] P90-10059 06
SUPERNUMEROIC TRANSFER
HIGH-SPEED TRANSFER ACCEPTANCE LINKED TO TECHNOLOGY ADVANCEMENTS
[NASA RELEASE-90-40] P90-10040 06
EXCEPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT, DALLAS, TEXAS P90-10192 05

SWEPT WINGS
S SWEPTFORWARD WINGS
SWEPTFORWARD WINGS
X-29 SHOWS UNEXPECTED MANEUVERABILITY IN 'HIGH-ALPHA' FLIGHT
[NASA RELEASE-90-52] P90-10052 06
NASA/USAF X-29 RESEARCH AIRCRAFT SET FOR PUBLIC VIEWING
[NASA RELEASE-90-84] P90-10084 06

TADCORPS
S TECHNICAL AND ADMIN. SERVICES CORP., D.C.
TDR SATELLITES
NASA REVISES SPACE SHUTTLE MANIFEST
[NASA RELEASE-90-37] P90-10037 06
TDRS
S TRACKING AND DATA RELAY SATELLITE SYSTEM
TECH BRIEFS / PUBLICATION S
S NASA TECH BRIEFS
TECHNICAL AND ADMIN. SERVICES CORP., D.C.
NASA TADCORPS SIGN INFORMATION EXCHANGE AGREEMENT
[NASA RELEASE-90-148] P90-10148 06
TECHNICAL INNOVATION
GLOBAL OUTPOST, INC., TO STUDY USES OF SHUTTLE EXTERNAL TANKS
[NASA RELEASE-90-141] P90-10014 06
NASA SELECTS SMALL BUSINESS INNOVATION RESEARCH PROJECTS
[NASA RELEASE-90-21] P90-10021 06
UCAR TO STUDY POSSIBLE USES OF EXTERNAL TANKS
[NASA RELEASE-90-26] P90-10026 06
NASA ANNOUNCES FIRST NATIONAL TECHNOLOGY TRANSFER CONFERENCE
[NASA RELEASE-90-80] P90-10080 06
NASA ANNOUNCED NEXT STEPS IN SPACE EXPLORATION OUTREACH PROGRAM
[NASA RELEASE-90-81] P90-10081 06
KEYNOTE ADDRESS TO THE NATIONAL ROCKET PROPULSION SYMPOSIUM, ALEXANDRIA, VIRGINIA
P90-10168 06
28TH GODDARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05

TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
NASA ANNOUNCES FIRST NATIONAL TECHNOLOGY TRANSFER CONFERENCE
[NASA RELEASE-90-80] P90-10080 06
NASA TECHNOLOGIES BENEFIT MEDICAL ORTHOPEDIC SCIENOE
[NASA RELEASE-90-142] P90-10142 06
TECHNOLOGY 2000: NASA OUTREACH TO AMERICAN BUSINESS
[NASA RELEASE-90-147] P90-10147 06
EXCEPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT, DALLAS, TEXAS P90-10192 05
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
TECHNOLOGY UTILIZATION PROGRAM
NASA TO FEATURE AERONAUTICS AND SPACE TECHNOLOGY UTILIZATION FOUNDATION, N.Y.
UNIVERSITY CORP. FOR ATMOS. RES., COLO.

UCAR TO STUDY POSSIBLE USES OF EXTERNAL TANKS
[NASA RELEASE-90-26] P90-10026 06

UNIVERSITY PARTICIPATION

NASA SIGNS AGREEMENT WITH CONSORTIUM OF MINORITY UNIVERSITIES
[NASA RELEASE-90-79] P90-10079 06

UNIVERSITY PROGRAMS

SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM PHASE II ANNOUNCED
[NASA RELEASE-90-75] P90-10075 06

NASA AWARDS EDUCATION RESEARCH GRANTS
[NASA RELEASE-90-126] P90-10079 06

UPPER ATMOSPHERE RESEARCH SATELLITE

U.S. AND U.S.S.R. AGREE ON OZONE MONITORING FROM SPACE
[NASA RELEASE-90-105] P90-10105 06

1990 ANTARCTIC OZONE HOLE EQUALS LOWEST PREVIOUS LEVELS
[NASA RELEASE-90-127] P90-10107 06

NASA RELEASES DECEMBER 1990 MIXED FLEET MANIFEST
[NASA RELEASE-90-159] P90-10159 06

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS
[NASA RELEASE-90-160] P90-10163 06

USDOD

S. DEPARTMENT OF AGRICULTURE

USML-1

S. MICROGRAVITY LABORATORY-1/USML-1/

UTAH

FIRING 'OLD' SHUTTLE ROCKET MOTORS HAS BENEFITS FOR FUTURE
[NASA RELEASE-90-61] P90-10006 06

UTAH STATE UNIV., LOGAN

NASA CHOSES INDUSTRY/UNIVERSITY IN-SPACE TECHNOLOGY STUDIES
[NASA RELEASE-90-68] P90-10088 06

VANDENBERG AFB, CALIF.

EARLY CORE RESULTS IN ACCORD WITH BIG BANG THEORY
[NASA RELEASE-90-5] P90-10005 06

MANAGEMENT OF POLAR PLATFORM TO CHANGE
[NASA RELEASE-90-10] P90-10101 06

TWO COMMUNICATIONS SATELLITES TO BE LAUNCHED IN MAY
[NASA RELEASE-90-64] P90-10064 06

VARIABLE WING AIRCRAFT

FLIGHT TESTS PROVE CONCEPT FOR JETLINER FUEL ECONOMY
[NASA RELEASE-90-115] P90-10115 06

VEGETABLES

MAKING FRESH VEGETABLES ON LONG DURATION SPACE TRAVEL
[NASA RELEASE-90-82] P90-10082 06

VEHICLES

S. LAUNCH VEHICLES S. ROVING VEHICLES

VENERA SPACECRAFT

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

VENERA 9

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

VENUS ATMOSPHERE

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

VENUS CLOUDS

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

VENUS EXPLORATIONS

SA MAGELLAN MISSION

MAGELLAN TO TEMPORARILY HALT RADAR MAPPING OF VENUS
[NASA RELEASE-90-141] P90-10141 06

VENUS RADAR MAPPER

S. MAGELLAN MISSION

VESTA MISSION

S. SOVIET MISSIONS MISSION

VESTIBULAR SYSTEM

NASA ANNOUNCED PAYLOAD SPECIALISTS FOR SPACELAB IML-1 MISSION
[NASA RELEASE-90-9] P90-10099 06

NEW TREATMENT EASES EFFECTS OF SPACE MOTION SICKNESS
[NASA RELEASE-90-155] P90-10155 06

VIDEO TAPE

MISSION TO PLANET EARTH FEATURED IN EDUCATION VIDEO BROADCAST
[NASA RELEASE-90-123] P90-10123 06

VIRGINIA INST. OF MARINE SCIENCE

NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN-UP TECHNOLOGY
[NASA RELEASE-90-56] P90-10056 06

VOICE CONTROL

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-10122 06

VOLCANOLOGY

PIONEER STUDIES LIGHTNING ON VENUS
[NASA RELEASE-90-101] P90-10101 06

JOIN NASA, USGS AND SOVIET TEAM TO STUDY RUSSIAN VOLCANOES
[NASA RELEASE-90-124] P90-10124 06

VORTEICES

NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN-UP TECHNOLOGY
[NASA RELEASE-90-56] P90-10056 06

VOYAGER SPACECRAFT

PIONEER 11 PASSES NEPTUNE’S ORBIT, LEAVES SOLAR SYSTEM
[NASA RELEASE-90-29] P90-10029 06

NEW MOON DISCOVERED ORBITING PLANET SATURN
[NASA RELEASE-90-103] P90-10103 06

SECOND INTERNATIONAL SYMPOSIUM ON SPACE INFORMATION SYSTEMS, PASADENA, CALIFORNIA
[NASA RELEASE-90-186] P90-10186 05

WAKE VORTEX

S. VORTEICES

WALLOPS FLIGHT FACILITY, VA.

NASA SCIENTIFIC INSTRUMENTS TO OBSERVE COMET AUSTIN
[NASA RELEASE-90-57] P90-10057 06

NASA TO CONDUCT SOUNDING ROCKET CAMPAIGN IN KWAJALEIN
[NASA RELEASE-90-93] P90-10093 06

U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY
[NASA RELEASE-90-102] P90-10102 06

NASA AND HONEYWELL CONDUCT AUTOMATED LANDING RESEARCH
[NASA RELEASE-90-153] P90-10153 06

TALKING POINTS FOR 45TH ANNIVERSARY, WALLOPS FLIGHT FACILITY, GODDARD SPACE FLIGHT CENTER
[NASA RELEASE-90-183] P90-10183 05

WASHINGTON UNIV., SEATTLE

SCIENTIST REPORTS POLLUTION IN CLOUDS CAN COOL EARTH’S CLIMATE
[NASA RELEASE-90-17] P90-10017 06

WASTE MANAGEMENT

NASA, TADCORPS SIGN INFORMATION EXCHANGE AGREEMENT
[NASA RELEASE-90-148] P90-10148 06

WATER POLLUTION

NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEAN-UP TECHNOLOGY
[NASA RELEASE-90-56] P90-10056 06

WATER WINGS PROJECT

S. PROJECT WATER WINGS

WEATHER

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE SYMPOSIUM FOR LINE PILOTS ON MANAGING THE MODERN COCKPIT, DALLAS, TEXAS
[P90-10192 05

WEATHER SATELLITES

S. FEDERAL MINISTRY FOR RES. & TECHNOLOGICAL RESEARCH

WEST GERMANY

WEST GERMANY

NASA, C&P AND STATE OF WEST VIRGINIA SUPPORT PROJECT LASER
[NASA RELEASE-90-110] P90-10110 06

WEST VIRGINIA

ATLANTIC OCEAN HOLE EQUALS LOWEST PREVIOUS LEVELS
[NASA RELEASE-90-35] P90-10035 06

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, ARLINGTON, VIRGINIA
[P90-10177 05

WINGS

S. SWEPTFORWARD WINGS

WISCONSIN

NASA/USA/ST X-29 RESEARCH AIRCRAFT SET FOR PUBLIC VIEWING
[NASA RELEASE-90-84] P90-10084 06

NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION
[NASA RELEASE-90-99] P90-10099 06

WISCONSIN UNIV., MADISON

Lunar mining could provide future energy source for Earth
[NASA RELEASE-90-129] P90-10129 06

WORKING GROUPS

U.S. AND U.S.S.R. AGREE ON OZONE MONITORING FROM SPACE
[NASA RELEASE-90-103] P90-10103 06

WORKING GROUPS, U.S.S.R./U.S.

JOIN NASA, USGS AND SOVIET TEAM TO STUDY RUSSIAN VOLCANOES
[NASA RELEASE-90-124] P90-10124 06

U.S. AND U.S.S.R. CONTINUE SPACE BIOLOGY AND MEDICINE COOPERATION
[NASA RELEASE-90-130] P90-10130 06

U.S. AND U.S.S.R. SPACE MEETINGS TO BE HELD
[NASA RELEASE-90-136] P90-10138 06

A-33


WRIGHT-PATTERSON AFB, OHIO

SA FLIGHT DYN LAB, WRIGHT-PATTERSON AFB
FLIGHT TESTS PROVE CONCEPT FOR JETLINER
FUEL ECONOMY
[NASA RELEASE-90-115] P90-10115 06

X

X-BAND
MAGELLAN TO TEMPORARILY Halt RADAR
MAPPING OF VENUS
[NASA RELEASE 90-141] P90-10141 06

X-RAY ASTRONOMY
COLUMBIA TO FLY ASTRONOMY MISSION
[NASA RELEASE 90-63] P90-10063 06
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY
UNIVERSE
[NASA RELEASE 90-66] P90-10066 06

X-RAY ASTROPHYSICS FACILITY
GAMMA-RAY OBSERVATORY SET FOR SHIPMENT
TO FLORIDA LAUNCH SITE
[NASA RELEASE 90-19] P90-10019 06

X-RAY TELESCOPES
SA X-RAY ASTROPHYSICS FACILITY
ROSAT SPACECRAFT ARRIVES AT FLORIDA
LAUNCH SITE
[NASA RELEASE 90-27] P90-10027 06
COLUMBIA TO FLY ASTRONOMY MISSION
[NASA RELEASE 90-63] P90-10063 06
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY
UNIVERSE
[NASA RELEASE 90-66] P90-10066 06

X-RAYS
NASA ROSAT IMAGER RETURNS SUCCESSFUL
FIRST LIGHT PICTURES
[NASA RELEASE 90-133] P90-10133 06

X-29 AIRCRAFT
X-29 SHOWS UNEXPECTED MANEUVERABILITY IN
HIGH-ALPHA FLIGHT
[NASA RELEASE 90-52] P90-10052 06
NASA/USAF X-29 RESEARCH AIRCRAFT SET FOR
PUBLIC VIEWING
[NASA RELEASE 90-84] P90-10084 06
NASA TO FEATURE AERONAUTICS AND SPACE AT
EAA CONVENTION
[NASA RELEASE 90-99] P90-10099 06
NASA HIGHLIGHTS OF 1990
[NASA RELEASE 90-160] P90-10160 06

X-30 AIRCRAFT
NASA HIGHLIGHTS OF 1990
[NASA RELEASE 90-160] P90-10160 06
Typical Personal Names Index Listing

<table>
<thead>
<tr>
<th>PERSONAL NAME</th>
<th>REFERENCE SECTION NUMBER</th>
<th>ACCESSION NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALDRICH, JOHN</td>
<td>P90-10174</td>
<td>05</td>
</tr>
<tr>
<td>ALDRICH NAMED OUTSTANDING ALUMNI BY NORTHEASTERN UNIVERSITY [NASA RELEASE-90-134]</td>
<td>P90-10134</td>
<td>06</td>
</tr>
<tr>
<td>NEW ALAM RESEARCH CENTER DEPUTY DIRECTOR TO HEAD ALAM-DRYDEN CENTER [NASA RELEASE-90-149]</td>
<td>P90-10149</td>
<td>06</td>
</tr>
<tr>
<td>ADDRESS TO THE NATIONAL SPACE CENTER [NASA RELEASE-90-151]</td>
<td>P90-10151</td>
<td>05</td>
</tr>
<tr>
<td>PRESS CONFERENCE OUTREACH PROGRAM [NASA RELEASE-90-161]</td>
<td>P90-10161</td>
<td>05</td>
</tr>
<tr>
<td>ALLIGRE, RAUL</td>
<td>P90-10091</td>
<td>06</td>
</tr>
<tr>
<td>TRULY PROMOTES SCIENCE AND MATH DURING NATIONAL ENGINEERS WEEK [NASA RELEASE-90-25]</td>
<td>P90-10025</td>
<td>06</td>
</tr>
<tr>
<td>AMEN, ANDREW M.</td>
<td>P90-10175</td>
<td>05</td>
</tr>
<tr>
<td>NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163]</td>
<td>P90-10163</td>
<td>05</td>
</tr>
<tr>
<td>ALLEN, LEW</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>GODDARD TROPHY CEREMONY PLANNED AT WHITE HOUSE [NASA RELEASE-90-42]</td>
<td>P90-10042</td>
<td>06</td>
</tr>
<tr>
<td>HUBBLE BOARD OF INVESTIGATION NAMED [NASA RELEASE-90-91]</td>
<td>P90-10091</td>
<td>06</td>
</tr>
<tr>
<td>ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122]</td>
<td>P90-10122</td>
<td>06</td>
</tr>
<tr>
<td>ALLENKIRCH, ROBERT A.</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122]</td>
<td>P90-10122</td>
<td>06</td>
</tr>
<tr>
<td>AMES, JOSEPH</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB [NASA RELEASE-90-163]</td>
<td>P90-10163</td>
<td>05</td>
</tr>
<tr>
<td>ANDERSON, CHRIS</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>PRESS CONFERENCE OUTREACH PROGRAM [NASA RELEASE-90-161]</td>
<td>P90-10161</td>
<td>05</td>
</tr>
<tr>
<td>ANDERSON, JOHN D.</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION [NASA RELEASE-90-150]</td>
<td>P90-10150</td>
<td>05</td>
</tr>
<tr>
<td>ANGEL, ROGER</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>HUBBLE BOARD OF INVESTIGATION NAMED [NASA RELEASE-90-91]</td>
<td>P90-10091</td>
<td>06</td>
</tr>
<tr>
<td>ANGOLD, NIGEL</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122]</td>
<td>P90-10122</td>
<td>06</td>
</tr>
<tr>
<td>APPLEGATE, FRED</td>
<td>P90-10181</td>
<td>05</td>
</tr>
<tr>
<td>COLUMBUS TO FLY ASTROLOGY MISSION [NASA RELEASE-90-63]</td>
<td>P90-10063</td>
<td>06</td>
</tr>
</tbody>
</table>

A

ABRAMSON, RUDY | P90-10181 | 05 |
| TRANSFER OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICALS AND SPACE ADMINISTRATION: ADMIRAL TRULY'S BUDGET NEWS CONFERENCE [NASA RELEASE-90-17] | P90-10017 | 05 |

ADAMS, JOHN | P90-10181 | 05 |
| EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE 247TH ANNIVERSARY OF THE BIRTH OF THOMAS JEFFERSON, JEFFERSON MEMORIAL TIDAL BASIN, WASHINGTON, D.C. [NASA RELEASE-90-17] | P90-10017 | 05 |

Adamson, James C. | P90-10181 | 05 |
| SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45) [NASA RELEASE-90-17] | P90-10017 | 05 |

AKERS, THOMAS D | P90-10181 | 05 |
| DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] | P90-10044 | 06 |
| ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] | P90-10122 | 06 |
| NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] | P90-10163 | 05 |

ALAM, AFSHAN | P90-10181 | 05 |
| NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] | P90-10087 | 06 |

ALBRECHT, MARK | P90-10181 | 05 |
| 28TH GODDARD MEMORIAL SYMPOSIUM: SESSION 1: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW WASHINGTON HILTON HOTEL, WASHINGTON, D.C. | P90-10017 | 05 |

ALDRICH, ARNOLD D. | P90-10181 | 05 |
| AERONAUTICS/EXPLORATION/TECHNOLOGY ICES MERGER COMPLETED [NASA RELEASE-90-37] | P90-10037 | 06 |

The title of the news release or speech appears under every name mentioned in each, whether or not the individual was an author or a speaker. In the case of a speech where the name refers to the actual speaker, this is indicated with a + to the left of the title. The accession number is located at the bottom right of the entry, followed by a two-digit number (05 or 06) identifying the index section where the complete citation appears. In the case of a news release, this number is included at the bottom left of the entry.
FLORES, ANEL

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE-90-150] P90-10150 06

FRANKLIN, BENJAMIN

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE TOWN HALL OF CALIFORNIA, LOS ANGELES, CALIFORNIA [NASA RELEASE-90-172] P90-10172 05

FRENCH, RICHARD G.

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION [NASA RELEASE-90-150] P90-10150 06

FRIEDMAN, ALEXANDER

SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45) [NASA RELEASE-90-72] P90-10072 06

FRIENDMAN, VINCENT

SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-44, STS-45) [NASA RELEASE-90-72] P90-10072 06

FULLERTON, CHARLIE GORDON

SPACE SHUTTLE CHUTE TESTS SET TO BEGIN AT AMES-DRYDEN [NASA RELEASE-90-100] P90-10100 06

GAFFNEY, F. ANDREW

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

GALILEO

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE TOWN HALL OF CALIFORNIA, LOS ANGELES, CALIFORNIA [NASA RELEASE-90-172] P90-10172 05

GARCIA-CASTANER, FELIX

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

GARDNER, GUY S.

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

COLUMBIA TO FLY ASTRONOMY MISSION [NASA RELEASE-90-63] P90-10063 06

GARNEAU, MARC D.

TRULY PRESENTED SPACE MODEL BY CANADIAN SCHOOL [NASA RELEASE-90-65] P90-10065 06

GEISSER, JACOB

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

GEIST, WILFRED

ROSAT SPACECRAFT TO EXPLORE HIGH ENERGIE UNIVERSE [NASA RELEASE-90-66] P90-10066 06

GEMAR, CHARLES D.

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

COLUMBIA TO FLY ASTRONOMY MISSION [NASA RELEASE-90-63] P90-10063 06

GIBB, J. W.

CRRES LAUNCH SET FOR JULY TO STUDY EARTHSPACE [NASA RELEASE-90-94] P90-10094 06

GIBSON, MELINDA

TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ADMIRAL TRULY'S BUDGET NEWS CONFERENCE [NASA RELEASE-90-163] P90-10163 06

GIBSON, ROBERT L.

SHUTTLE CREW COMMANDERS REASSIGNED [NASA RELEASE-90-96] P90-10096 06

GILRUTH, R.

APOLLO 204 SPACECRAFT TO EXPLORE HIGH ENERGIE UNIVERSE [NASA RELEASE-90-44] P90-10044 06

GODDARD, ROBERT

EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE TOWN HALL OF CALIFORNIA, LOS ANGELES, CALIFORNIA [NASA RELEASE-90-172] P90-10172 05

GOEBEL, KURT

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

GOEBELS, HANS

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION [NASA RELEASE-90-150] P90-10150 06

GODWIN, LINDA M.

DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

GRABER, R. CURTIS

SHUTTLE CREW COMMANDERS REASSIGNED [NASA RELEASE-90-96] P90-10096 06

GREEN, DAN

HUBBLE TO OBSERVE SATURN'S GREAT WHITE SPOT [NASA RELEASE-90-44] P90-10044 06

GREENE, GEORGE

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GREEN, JAMES

NASA SELECTS STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-150] P90-10150 06

GREENFIELD, MICHAEL

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GREGORY, FREDERICK D.

SHUTTLE CREW COMMANDERS REASSIGNED [NASA RELEASE-90-96] P90-10096 06

GREGORY, WILLIAM G.

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GRIFFIN, DANIEL L.

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION [NASA RELEASE-90-150] P90-10150 06

GRILLON, PETER

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GROEBEL, JOHN

ROSSAT SPACECRAFT TO EXPLORE HIGH ENERGIE UNIVERSE [NASA RELEASE-90-66] P90-10066 06

GROEBEL, JOHN

ROSSAT SPACECRAFT TO EXPLORE HIGH ENERGIE UNIVERSE [NASA RELEASE-90-66] P90-10066 06

GUILKINS, SAMUEL

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GUIN, BILL

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

GULL, THEODORE

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

HURDLE SPACE MISSION [NASA RELEASE-90-45] P90-10045 06

JAMES, STEPHEN

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

JACOBS, TIMOTHY

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

JAIN, HARSH

NASA ANNOUNCES CREW MEMBERS FOR FUTURE SPACE SHUTTLE FLIGHTS [NASA RELEASE-90-163] P90-10163 06

JEFFERSON

PRESIDENT BIRTH OF THOMAS JEFFERSON; JEFFERSON BIRTH OF THOMAS JEFFERSON; JEFFERSON DEATH OF THOMAS JEFFERSON; JEFFERSON HISTORIC SITE; JEFFERSON MEMORIAL TIDAL BASIN, WASHINGTON, DC [NASA RELEASE-90-150] P90-10150 06
J

JANSSEN, MICHAEL A.
EARLY CORE RESULTS IN ACCORD WITH BIG BANG THEORY
[NASA RELEASE-90-5] P90-10005 05

JARRETT, JOYCE
NINE FIRMS NAMED NASA EXCELLENCE AWARD FINALISTS
[NASA RELEASE-90-62] P90-10006 02

JAUMANN, RALF
NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE-90-150] P90-10050 06

JEFFERSON, MARTHA
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE 247TH ANNIVERSARY OF THE BIRTH OF THOMAS JEFFERSON; JEFFERSON MEMORIAL TIDAL BASIN, WASHINGTON, D.C.
P90-10175 05

JEFFERSON, THOMAS
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE 247TH ANNIVERSARY OF THE BIRTH OF THOMAS JEFFERSON; JEFFERSON MEMORIAL TIDAL BASIN, WASHINGTON, D.C.
P90-10175 05

JEFFREWS, WILLIAM H.
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT
[NASA RELEASE-90-44] P90-10044 04

JENNING, TAMARA E.
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT
[NASA RELEASE-90-44] P90-10044 04

JOHNSON, DAVID E.
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE DOWTOWN ASSOCIATION, NEW YORK, NEW YORK
P90-10182 05

JOHNSON, LYNDON B.
SEVENTH ANNUAL NASA/CONTRACTORS CONFERENCE TOTAL QUALITY LEADERSHIP: ORLANDO, FLORIDA
P90-10190 05

JOHNSON, TORRENCE V.
NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE-90-150] P90-10050 06

JONES, JACK
COLUMBIA TO FLY ASTROLOGY MISSION
[NASA RELEASE-90-63] P90-10063 06

JONES, THOMAS D.
90% ASTRONAUT CANDIDATES SELECTED
[NASA RELEASE-90-71] P90-10007 06

K

KAHLE, ANNE
JOIN NASA, USGS AND SOVIET TEAM TO STUDY RUSSIAN VOLCANOES
[NASA RELEASE-90-124] P90-10124 06

KALINOWSKI, KEITH J.
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT
[NASA RELEASE-90-44] P90-10044 04

KALTENBACH, VOLKER
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE
[NASA RELEASE-90-66] P90-10066 06

KALUZINSKI, LOUIS
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE
[NASA RELEASE-90-66] P90-10066 06

KANADE, TAIKO
CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA
[NASA RELEASE-90-69] P90-10069 06

KAMPE, DAVID B.
COLUMBIA TO FLY ASTROLOGY MISSION
[NASA RELEASE-90-63] P90-10063 06

KASTING, JAMES
HEAT EARLY EARTH EVIDENCE MAY CHANGE LIFE EVOLUTION THEORIES
[NASA RELEASE-90-128] P90-10128 06

KATZ, MEAL S.
HUBBLE POSTDOCTORAL FELLOWSHIP PROGRAM ESTABLISHED
[NASA RELEASE-90-38] P90-10038 06

KEARN'S, DAVID T.
NASA LEADERSHIP MEETS WITH TASK FORCE
[NASA RELEASE-90-161] P90-10161 06

KEEGER, SARAH
HUBBLE BOARD OF INVESTIGATION NAMED
[NASA RELEASE-90-91] P90-10091 06

KELLER, SAMUEL W.
U.S. AND U.S.S.R. CONTINUE SPACE BIOLOGY AND MEDICINE COOPERATION
[NASA RELEASE-90-130] P90-10130 06

KELLY, MICHAEL C.
NASA TO CONDUCT SOUNDING ROCKET CAMPAIGN IN KWAJALEIN
[NASA RELEASE-90-93] P90-10093 06

KELSTALL, THOMAS
EARLY CORE RESULTS IN ACCORD WITH BIG BANG THEORY
[NASA RELEASE-90-5] P90-10005 06

KENNEDY, JOHN FITZGERALD
KEYNOTE ADDRESS TO THE NATIONAL ROCKET PROPULSION SYMPOSIUM, ALEXANDRIA, VIRGINIA
P90-10186 05

28TH GODDARD MEMORIAL SYMPOSIUM SESSION I - HUMAN EXPLORATION INITIATIVES: AN OVERVIEW, WASHINGTON HILTON HOTEL, WASHINGTON, D.C.
P90-10174 05

REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR, BEFORE THE AVIATION SPACE WRITERS
P90-10178 05

PRESS CONFERENCE OUTREACH PROGRAM
P90-10181 05

MISSISSIPPI STATE UNIVERSITY FALL FACULTY CONVOCATION
P90-10195 05

SECOND INTERNATIONAL SYMPOSIUM ON SPACE INFORMATION SYSTEMS, PASADENA, CALIFORNIA
P90-10196 05

MYTH AND REALITY, NASA AND THE SPACE EXPLORATION INITIATIVE, HUNTSVILLE, ALABAMA
P90-10197 05

SEVENTH ANNUAL NASA/CONTRACTORS CONFERENCE TOTAL QUALITY LEADERSHIP: ORLANDO, FLORIDA
P90-10190 05

EXCERPTS OF REMARKS PREPARED FOR DELIVERY TO TECHNOLOGY 2000 CONFERENCE, WASHINGTON, D.C.
P90-10191 05

KEPPLER, ERHARDT
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-1022 06

KERWIN, LARUEK
TRULY PRESENTED SPACE MODEL BY CANADIAN SCHOOL
[NASA RELEASE-90-65] P90-10065 06

KING, MICHAEL D.
SCIENTIST REPORTS POLLUTION IN CLOUDS CAN COOL EARTH'S CLIMATE
[NASA RELEASE-90-17] P90-10017 06

KING, VAL
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT
[NASA RELEASE-90-44] P90-10044 06

KINZIG, ANN P.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM
[NASA RELEASE-90-87] P90-10087 06

KIRK, RANDOLPH L.
NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE-90-150] P90-10150 06

KIRKMAN, DON
TRANSCRIPT OF PROCEEDINGS BEFORE THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ADMIRAL TRULY'S BUDGET NEWS CONFERENCE
P90-10167 05

PRESS CONFERENCE OUTREACH PROGRAM
P90-10181 05

KLIEHN, STEPHEN A.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM
[NASA RELEASE-90-87] P90-10087 06

KLINEBERG, JOHN
NASA ADMINISTRATOR APPOINTS ROSS AS LEWIS CENTER DIRECTOR
[NASA RELEASE-90-49] P90-10049 06

TRULY APPOINTS KLINEBERG AS DIRECTOR OF GODDARD SPACE FLIGHT CENTER
[NASA RELEASE-90-51] P90-10051 06

KLIORE, ARVYDAS J.
NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE-90-150] P90-10150 06

KLISS, MARK
MAKING FRESH VEGETABLES ON LONG-DURATION SPACE TRAVEL
[NASA RELEASE-90-82] P90-10082 06

KNUTSON, MARTIN A.
COLUMBIA TO FLY ASTROLOGY MISSION
[NASA RELEASE-90-63] P90-10063 06

NEW AMES RESEARCH CENTER DEPUTY DIRECTOR TO HEAD AMES-DRYDEN
[NASA RELEASE-90-149] P90-10149 06

KOENIG, JOHN R.
NASA ANNOUNCES 1990 SPIR AWARDS
[NASA RELEASE-90-109] P90-10109 06

KOHERS, RICHARD H.
NASA NAMES TAYLOR CHIEF SCIENTIST FOR FREEDOM SPACE STATION
[NASA RELEASE-90-61] P90-10061 06

NASA HIGHLIGHTS OF 1990
[NASA RELEASE-90-160] P90-10160 06

KOLDEN, JOHN R.
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-10122 06

KOLLER, ALBERT, JR.
COMPUTERIZED MEDICAL REFERENCE HAS SPACE AND EARTH APPLICATIONS
[NASA RELEASE-90-30] P90-10030 06

KRANZ, EUGENE F.
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT
[NASA RELEASE-90-44] P90-10044 06

COLUMBIA TO FLY ASTROLOGY MISSION
[NASA RELEASE-90-90] P90-10090 06

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION
[NASA RELEASE-90-122] P90-10122 06
PERSONAL NAMES INDEX

WEILER, EDWARD J.
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-441] P90-10044 06

COLUMBIA TO FLY ASTRONOMY MISSION [NASA RELEASE-90-63] P90-10063 06

HST TAKES FAMILY PORTRAIT OF STARS OUTSIDE MILKY WAY [NASA RELEASE-90-111] P90-10111 06

WEISHAMPEL, JOHN FREDERICK
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

WEISS, RAINER
EARLY COBE RESULTS IN ACCORD WITH BIG BANG THEORY [NASA RELEASE-90-5] P90-10005 06

WELTZ, PAUL JOSEPH
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

WENZEL, KLAUS-PETER
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

WESCOTT, GENE M.
CRRES LAUNCH SET FOR JULY TO STUDY EARTHSPACE [NASA RELEASE-90-94] P90-10094 06

WILKINSON, DAVID T.
EARLY COBE RESULTS IN ACCORD WITH BIG BANG THEORY [NASA RELEASE-90-5] P90-10005 06

WILLMANS, DONALD E.
SELECTED 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

WILBER, STEUART
HUBBLE TO OBSERVE SATURN'S GREAT WHITE SPOT [NASA RELEASE-90-146] P90-10146 06

WILCOX, BRIAN
NASA'S JET PROPULSION LABORATORY TESTS PLANETARY ROVER [NASA RELEASE-90-85] P90-10085 06

WILCUTT, TERRENCE W.
1990 ASTRONAUT CANIDATES SELECTED [NASA RELEASE-90-7] P90-10007 06

WILEY, WARREN
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-127] P90-10127 06

WILKINS, DAVE
ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

WILMINGTON, JOHN R.
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE [NASA RELEASE-90-66] P90-10066 06

WILKINSON, DAVID T.
EARLY COBE RESULTS IN ACCORD WITH BIG BANG THEORY [NASA RELEASE-90-5] P90-10005 06

WILLIAMS, DONALD E.
VETERAN SHUTTLE ASTRONAUT WILLIAMS TO RETIRE FROM NASA NAVY [NASA RELEASE-90-31] P90-10031 06

ULYSSES DEPLOYMENT HIGHLIGHTS STS-41 MISSION [NASA RELEASE-90-122] P90-10122 06

WILSON, GERALD
NASA NAMES SPACE SHUTTLE HYDROGEN LEAK INVESTIGATION TEAM [NASA RELEASE-90-127] P90-10127 06

WILSON, ROBERT
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

WILSON, ROBERT
DISCOVERY TO STATION HUBBLE SPACE TELESCOPE IN EARTH ORBIT [NASA RELEASE-90-44] P90-10044 06

WILSON, WOODROW
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB, ARLINGTON, VIRGINIA [NASA RELEASE-90-10177 05

WINCHELL, JERRY
TRULY PRESENTED SPACE MODEL BY ALFRED 'A' MARKS 75 YEARS OF ACHIEVEMENT [NASA RELEASE-90-35] P90-10035 06

WISNER, J. D.
TRULY PRESENTED SPACE MODEL BY ALFRED 'A' MARKS 75 YEARS OF ACHIEVEMENT [NASA RELEASE-90-35] P90-10035 06

WISNER, RANDOLPH H.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

WITZLING, JAY
NASA ANNOUNCED PAYLOAD SPECIALISTS FOR DISCOVERY TO STATION HUDDLE [NASA RELEASE-90-87] P90-10087 06

ZAHNLE, KEVIN
NATURE WILLuron THEOREY [NASA RELEASE-90-10128 06

ZARON, EDWARD D.

ZARON, EDWARD D.
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB, ARLINGTON, VIRGINIA [NASA RELEASE-90-10177 05

THE EXPLORATION OF SPACE ALFRED M. LONDON LECTURE, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS P90-10193 05

ZARON, EDWARD D.
EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB, ARLINGTON, VIRGINIA [NASA RELEASE-90-10177 05

THE EXPLORATION OF SPACE ALFRED M. LONDON LECTURE, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS P90-10193 05

ZWICK, RALPHARD H.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

ZANNY, BRIAN P.
HUBBLE POSTDOCTORIAL FELLOWSHIP PROGRAM [NASA RELEASE-90-38] P90-10038 06

YOUNG, DAVID T.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

ZANNY, BRIAN P.
HUBBLE POSTDOCTORIAL FELLOWSHIP PROGRAM [NASA RELEASE-90-38] P90-10038 06

ZWICK, RALPHARD H.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

ZANNY, BRIAN P.
HUBBLE POSTDOCTORIAL FELLOWSHIP PROGRAM [NASA RELEASE-90-38] P90-10038 06

ZWICK, RALPHARD H.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06

ZANNY, BRIAN P.
HUBBLE POSTDOCTORIAL FELLOWSHIP PROGRAM [NASA RELEASE-90-38] P90-10038 06

ZWICK, RALPHARD H.
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM [NASA RELEASE-90-87] P90-10087 06
ZEBKER, HOWARD A.

NASA SELECTS INVESTIGATIONS FOR CASSINI SATURN ORBITER MISSION
[NASA RELEASE: 90-150] P90-10150 06

ZHANG, RENYI

NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM
[NASA RELEASE: 90-87] P90-10087 06

ZIMMERMANN, H. U.

ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE
[NASA RELEASE 90-66] P90-10066 06

ZOBY, E. VINCENT

RESEARCH EXPERIMENTS TO MONITOR COLUMBIA RE-ENTRY
[NASA RELEASE 90-8] P90-10008 06

COLUMBIA TO FLY ASTRONOMY MISSION
[NASA RELEASE 90-63] P90-10063 06
## Typical News Release Number Index Listing

<table>
<thead>
<tr>
<th>NEWS RELEASE NUMBER</th>
<th>ACCESSION NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA RELEASE-90-56</td>
<td>P90-10056 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-57</td>
<td>P90-10057 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-58</td>
<td>P90-10058 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-59</td>
<td>P90-10059 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-60</td>
<td>P90-10060 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-61</td>
<td>P90-10061 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-62</td>
<td>P90-10062 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-63</td>
<td>P90-10063 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-64</td>
<td>P90-10064 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-65</td>
<td>P90-10065 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-66</td>
<td>P90-10066 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-67</td>
<td>P90-10067 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-68</td>
<td>P90-10068 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-69</td>
<td>P90-10069 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-70</td>
<td>P90-10070 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-71</td>
<td>P90-10071 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-72</td>
<td>P90-10072 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-73</td>
<td>P90-10073 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-74</td>
<td>P90-10074 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-75</td>
<td>P90-10075 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-76</td>
<td>P90-10076 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-77</td>
<td>P90-10077 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-78</td>
<td>P90-10078 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-79</td>
<td>P90-10079 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-80</td>
<td>P90-10080 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-81</td>
<td>P90-10081 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-82</td>
<td>P90-10082 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-83</td>
<td>P90-10083 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-84</td>
<td>P90-10084 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-85</td>
<td>P90-10085 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-86</td>
<td>P90-10086 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-87</td>
<td>P90-10087 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-88</td>
<td>P90-10088 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-89</td>
<td>P90-10089 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-90</td>
<td>P90-10090 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-91</td>
<td>P90-10091 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-92</td>
<td>P90-10092 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-93</td>
<td>P90-10093 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-94</td>
<td>P90-10094 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-95</td>
<td>P90-10095 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-96</td>
<td>P90-10096 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-97</td>
<td>P90-10097 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-98</td>
<td>P90-10098 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-99</td>
<td>P90-10099 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-100</td>
<td>P90-10100 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-101</td>
<td>P90-10101 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-102</td>
<td>P90-10102 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-103</td>
<td>P90-10103 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-104</td>
<td>P90-10104 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-105</td>
<td>P90-10105 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-106</td>
<td>P90-10106 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-107</td>
<td>P90-10107 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-108</td>
<td>P90-10108 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-109</td>
<td>P90-10109 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-110</td>
<td>P90-10110 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-111</td>
<td>P90-10111 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-112</td>
<td>P90-10112 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-113</td>
<td>P90-10113 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-114</td>
<td>P90-10114 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-115</td>
<td>P90-10115 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-116</td>
<td>P90-10116 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-117</td>
<td>P90-10117 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-118</td>
<td>P90-10118 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-119</td>
<td>P90-10119 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-120</td>
<td>P90-10120 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-121</td>
<td>P90-10121 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-122</td>
<td>P90-10122 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-123</td>
<td>P90-10123 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-124</td>
<td>P90-10124 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-125</td>
<td>P90-10125 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-126</td>
<td>P90-10126 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-127</td>
<td>P90-10127 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-128</td>
<td>P90-10128 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-129</td>
<td>P90-10129 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-130</td>
<td>P90-10130 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-131</td>
<td>P90-10131 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-132</td>
<td>P90-10132 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-133</td>
<td>P90-10133 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-134</td>
<td>P90-10134 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-135</td>
<td>P90-10135 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-136</td>
<td>P90-10136 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-137</td>
<td>P90-10137 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-138</td>
<td>P90-10138 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-139</td>
<td>P90-10139 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-140</td>
<td>P90-10140 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-141</td>
<td>P90-10141 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-142</td>
<td>P90-10142 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-143</td>
<td>P90-10143 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-144</td>
<td>P90-10144 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-145</td>
<td>P90-10145 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-146</td>
<td>P90-10146 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-147</td>
<td>P90-10147 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-148</td>
<td>P90-10148 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-149</td>
<td>P90-10149 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-150</td>
<td>P90-10150 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-151</td>
<td>P90-10151 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-152</td>
<td>P90-10152 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-153</td>
<td>P90-10153 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-154</td>
<td>P90-10154 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-155</td>
<td>P90-10155 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-156</td>
<td>P90-10156 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-157</td>
<td>P90-10157 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-158</td>
<td>P90-10158 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-159</td>
<td>P90-10159 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-160</td>
<td>P90-10160 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-161</td>
<td>P90-10161 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-162</td>
<td>P90-10162 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-163</td>
<td>P90-10163 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-164</td>
<td>P90-10164 06</td>
</tr>
<tr>
<td>NASA RELEASE-90-165</td>
<td>P90-10165 06</td>
</tr>
</tbody>
</table>

This index correlates each news release number with its corresponding accession number. Following the accession number is a two-digit number (05 or 06) identifying the index section where the complete citation appears. News release numbers that were assigned but not used in this index have been omitted from this listing.
## Typical Speech Entry

<table>
<thead>
<tr>
<th>ACCESSION NUMBER</th>
<th>NUMBER OF PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>P90-10159</td>
<td></td>
</tr>
</tbody>
</table>

**EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE NATIONAL GOVERNORS' ASSOCIATION TASK FORCE ON GLOBAL CLIMATE CHANGE**

**TRULY, RICHARD HARRISON** 26 FEB 1990 7p

This listing provides the complete citation for each speech indexed in this publication. Included for each speech are the title, name of speaker, date of release, and other reference information.

### EXCERPTS FROM REMARKS PREPARED FOR DELIVERY TO THE NATIONAL GOVERNORS' ASSOCIATION TASK FORCE ON GLOBAL CLIMATE CHANGE

**TRULY, RICHARD HARRISON** 26 FEB 1990 7p

**28TH GODDARD MEMORIAL SYMPOSIUM SESSION I: HUMAN EXPLORATION INITIATIVES: AN OVERVIEW; WASHINGTON, HILTON HOTEL, WASHINGTON, D.C.**

**THOMPSON, JAMES R. JR.** 15 MAR 1990 7p

**EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE 247TH ANNIVERSARY OF THE BIRTH OF THOMAS JEFFERSON, JEFFERSON MEMORIAL, TIDAL BASIN, WASHINGTON, D.C.**

**TRULY, RICHARD HARRISON** 13 APR 1990 5p

**GODDARD SPACE FLIGHT CENTER ENGINEERING COLLOQUIUM CONTRACTING OUT - HAS NASA GONE TOO FAR?**

**THOMPSON, JAMES R. JR.** 16 APR 1990 14p

**EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE NATIONAL AVIATION CLUB, ARLINGTON, VIRGINIA**

**TRULY, RICHARD HARRISON** 19 APR 1990 6p

**REMARKS BY J. R. THOMPSON, NASA DEPUTY ADMINISTRATOR, BEFORE THE AVIATION SPACE WRITERS**

**THOMPSON, JAMES R. JR.** 21 APR 1990 10p

**OVERVIEW: MAJOR SPACE PROGRAMS, PRESENTED TO: TREASURY EXECUTIVE INSTITUTE**

**FISK, LENNARD A.** 24 MAY 1990 11p

**SPACE SHUTTLE TO LUNAR ORBIT: EXCERPTS FROM REMARKS TO 9TH INTERNATIONAL SPACE DEVELOPMENT CONFERENCE**

**THOMPSON, JAMES R. JR.** 30 MAY 1990 3p

**PRESS CONFERENCE OUTREACH PROGRAM**

**TRULY, RICHARD HARRISON** 31 MAY 1990 31p

**EXCERPTS FROM REMARKS PREPARED FOR DELIVERY AT THE TOWN TOWN ASSOCIATION, NEW YORK, NEW YORK**

**TRULY, RICHARD HARRISON** 8 JUN 1990 7p

**TALKING POINTS FOR 45TH ANNIVERSARY, WOLLS'S FLIGHT FACILITY, GODDARD SPACE FLIGHT CENTER**

**TRULY, RICHARD HARRISON** 9 JUL 1990 4p

**MISSION TO PLANET EARTH: EROS DATA CENTER DEDICATION, SIOUX FALLS, SD**

**FISK, LENNARD A.** 28 AUG 1990 10p

**MISSISSIPPI STATE UNIVERSITY FALL FALCON CONVOCATION**

**TRULY, RICHARD HARRISON** 11 SEP 1990 7p

**SECOND INTERNATIONAL SYMPOSIUM ON SPACE INFORMATION SYSTEMS, PASADENA, CALIFORNIA**

**TRULY, RICHARD HARRISON** 17 SEP 1990 6p

**MYTH AND REALITY NASA AND THE SPACE EXPLORATION INITIATIVE, HUNTSVILLE, ALABAMA**

**ALDRICH, ARNOLD D.** 26 SEP 1990 11p

**NASA HEADQUARTERS, HONOR AWARDS CEREMONY**

**TRULY, RICHARD HARRISON** 3 OCT 1990 3p
Typical News Release Entry

<table>
<thead>
<tr>
<th>ACCESSION NUMBER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P90-10013</td>
<td>SCIENCE PAYLOAD COMMANDERS NAMED: CARTER REPLACES CLEAVE ON IML-1</td>
</tr>
<tr>
<td>DATE OF RELEASE</td>
<td>NUMBER OF PAGES</td>
</tr>
<tr>
<td>25 JAN 1990</td>
<td>2p</td>
</tr>
</tbody>
</table>

This listing provides the complete citation for each news release indexed in this publication. Included for each news release are the title, date of release, news release number (if any), and other reference information.
NEWS RELEASES

P90-10045
SCIENTISTS ADVANCE MONITORING OF GLOBAL ATMOSPHERIC TEMPERATURES
29 MAR 1990 2p NASA RELEASE 90-45

P90-10046
NASA CALLS FOR MIDDECK LOCKER MODULE PROPOSALS
30 MAR 1990 2p NASA RELEASE 90-46

P90-10047
NASA AND ROCKWELL SIGN AGREEMENT FOR EDO PALLLET
2 APR 1990 1p NASA RELEASE 90-47

P90-10048
NASA ADMINISTRATOR INVITES LOCAL STUDENTS TO SHUTTLE LAUNCHES
2 APR 1990 1p NASA RELEASE 90-48

P90-10049
NASA ADMINISTRATOR APPOINTS ROSS AS LEWIS CENTER DIRECTOR
9 APR 1990 1p NASA RELEASE 90-49

P90-10050
GOODRICH SPACE FLIGHT CENTER DIRECTOR PLANS RETIREMENT
9 APR 1990 1p NASA RELEASE 90-50

P90-10051
TRULY APPOINTS KUNEBERG AS DIRECTOR OF GOODRICH SPACE FLIGHT CENTER
9 APR 1990 1p NASA RELEASE 90-51

P90-10052
X-29 SHOWS UNEXPECTED MANEUVERABILITY IN HIGH ALPHA FLIGHT
9 APR 1990 2p NASA RELEASE 90-52

P90-10053
NASA DEDICATES HUMAN PERFORMANCE LAB AT AMES RESEARCH CENTER
11 APR 1990 2p NASA RELEASE 90-53

P90-10054
NASA EXPERIMENT TO BRIGHTEN EASTER SKY
13 APR 1990 2p NASA RELEASE 90-54

P90-10055
RICHARD NAMED DEPUTY ASSOCIATE ADMINISTRATION FOR COMMUNICATIONS
17 APR 1990 1p NASA RELEASE 90-55

P90-10056
NASA ENGINEERS AND MARINE SCIENTISTS TEST BAY CLEANUP TECHNOLOGY
19 APR 1990 3p NASA RELEASE 90-56

P90-10057
NASA SCIENTIFIC INSTRUMENTS TO OBSERVE COTMET AUSTIN
29 APR 1990 2p NASA RELEASE 90-57

P90-10058
LAUNCH DATE SET FOR CONSORTIUM 3
23 APR 1990 2p NASA RELEASE 90-58

P90-10059
NASA F-16X AIRCRAFT LAMINAR FLOW STUDIES SET TO BEGIN
23 APR 1990 2p NASA RELEASE 90-59

P90-10060
APOLLO 204 SPACECRAFT TO BE STORED AT CAPE CANAVERAL AT STATION
1 MAY 1990 1p NASA RELEASE 90-60

P90-10061
NASA NAMES TAYLOR LEHMAN SCIENTIST FOR FREEDOM SPACE STATION
2 MAY 1990 1p NASA RELEASE 90-61

P90-10062
NINE FIRMS NAMED NASA EXCELLENCE AWARD FINALISTS
2 MAY 1990 2p NASA RELEASE 90-62

P90-10063
COLUMBUS TO FLY ASTRONOMY MISSION
MAY 1990 4p NASA RELEASE 90-63

P90-10064
TWO COMMUNICATIONS SATELLITES TO BE LAUNCHED IN MAY
1 MAY 1990 1p NASA RELEASE 90-64

P90-10065
TRULY PRESENTED SPACE MODEL BY CANADIAN SCHOOL
7 MAY 1990 1p NASA RELEASE 90-65

P90-10066
ROSAT SPACECRAFT TO EXPLORE HIGH ENERGY UNIVERSE
MAY 1990 1p NASA RELEASE 90-66

P90-10067
NASA STUDIES EFFECT OF TROPICAL-FOREST BURNING ON GREENHOUSE GASES
8 MAY 1990 2p NASA RELEASE 90-67

P90-10068
NASA AWARDS CONTRACT TO DEVELOP ADVANCED SOLID ROCKET MOTOR
14 MAY 1990 3p NASA RELEASE 90-68

P90-10069
CARNEGIE MELLON UNIVERSITY DEVELOPS PLANETARY ROBOT FOR NASA
17 MAY 1990 2p NASA RELEASE 90-69

P90-10070
ULTIMATES SPACECRAFT ARRIVES AT CAPE TO BEGIN LAUNCH PREPARATIONS
17 MAY 1990 2p NASA RELEASE 90-70

P90-10071
DOOD/NASA ANNOUNCE NATIONAL AERO-SPACE PLANE CONTRACTOR TEAM
24 MAY 1990 1p NASA RELEASE 90-71

P90-10072
SHUTTLE CREWS NAMED FOR 1991 MISSIONS (STS-43, STS-4, STS-AG)
24 MAY 1990 3p NASA RELEASE 90-72

P90-10073
NEW ADVANCED LIFE SUPPORT DIVISION ESTABLISHED AT NASA AMES
25 MAY 1990 2p NASA RELEASE 90-73

P90-10074
NASA ADMINISTRATOR ANNOUNCES EXPLORATION OUTREACH PROGRAM
31 MAY 1990 2p NASA RELEASE 90-74

P90-10075
SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM PHASE II ANNOUNCED
31 MAY 1990 2p NASA RELEASE 90-75

P90-10076
APOLLO 204 CAPSULE TO REMAIN AT THE LANGLEY RESEARCH CENTER
5 MAY 1990 1p NASA RELEASE 90-76

P90-10077
VIETNAM ASTRONAUT HAWLEY TO ACCEPT EXECUTIVE POSITION AT AMES
7 JUN 1990 2p NASA RELEASE 90-77

P90-10078
SUCCESSFUL MANEUVERING VEHICLE PROGRAM BEGINS AT NASA AMES
7 JUN 1990 1p NASA RELEASE 90-78

P90-10079
NASA SIGNS AGREEMENT WITH CONSORTIUM OF MINORITY UNIVERSITIES
11 JUN 1990 2p NASA RELEASE 90-79

P90-10080
NASA ANNOUNCES FIRST NATIONAL TECHNOLOGY TRANSFER CONFERENCE
12 JUN 1990 2p NASA RELEASE 90-80

P90-10081
NASA ANNOUNCED NEXT STEPS IN SPACE EXPLORATION OUTREACH PROGRAM
13 JUN 1990 1p NASA RELEASE 90-81

P90-10082
MAKING FRESH VEGETABLES ON LONG DURATION SPACE TRAVEL
14 JUN 1990 3p NASA RELEASE 90-82

P90-10083
COMMERCIAL EXPERIMENT TRANSPORTER PLANNED
14 JUN 1990 2p NASA RELEASE 90-83

P90-10084
NASA/USAF X-29 RESEARCH AIRCRAFT SET FOR PUBLIC VIEWING
20 JUN 1990 2p NASA RELEASE 90-84

P90-10085
NASA'S JET PROPULSION LABORATORY TESTS PLANETARY ROVER
21 JUN 1990 3p NASA RELEASE 90-85

P90-10086
CONTEL TO TRANSFER TITLE OF TDSS TO NASA
21 JUN 1990 1p NASA RELEASE 90-86

P90-10087
NASA SELECTS 37 STUDENTS FOR GLOBAL CHANGE FELLOWSHIP PROGRAM
22 JUN 1990 3p NASA RELEASE 90-87

P90-10088
NASA CHOOSES INDUSTRY/UNIVERSITY IN SPACE TECHNOLOGY STUDIES
27 JUN 1990 2p NASA RELEASE 90-88

P90-10089
HYDROGEN LEAK DISCOVERED ON SHUTTLE ATLANTIS
29 JUN 1990 2p NASA RELEASE 90-89

P90-10090
CONTROLLED REST PERIODS SHOWN TO IMPROVE PILOT ALERTNESS
2 JUL 1990 3p NASA RELEASE 90-90

P90-10091
HUBBLE BOARD OF INVESTIGATION NAMED
2 JUL 1990 2p NASA RELEASE 90-91

P90-10092
NASA ORBITAL SCIENTIFIC CORPORATION SIGN AGREEMENT
3 JUL 1990 1p NASA RELEASE 90-92

P90-10093
NASA TO CONDUCT SOUNDING ROCKET CAMPAIGN IN KWAJALEIN
6 JUL 1990 3p NASA RELEASE 90-93

P90-10094
CRESIS LAUNCH SET FOR JULY TO STUDY EARTHSPACE
7 JUL 1990 2p NASA RELEASE 90-94

P90-10095
CRESIS LAUNCH DELAYED ONE TO TWO WEEKS
12 JUL 1990 2p NASA RELEASE 90-95

P90-10096
CRESIS LAUNCH POSTponED ON JULY TO STUDY EARTHSPACE
10 JUL 1990 2p NASA RELEASE 90-96

P90-10097
CRESIS LAUNCH SET FOR JULY TO STUDY EARTHSPACE
10 JUL 1990 2p NASA RELEASE 90-97

P90-10098
CRESIS LAUNCH DELAYED ONE TO TWO WEEKS
12 JUL 1990 2p NASA RELEASE 90-98

P90-10099
NASA TO FEATURE AERONAUTICS AND SPACE AT EAA CONVENTION
18 JUL 1990 2p NASA RELEASE 90-99

P90-10100
SPACE SHUTTLE DRAG CHUTE TESTS SET TO BEGIN AT AMES-DRYDEN
18 JUL 1990 2p NASA RELEASE 90-100

P90-10101
PIONEER STUDIES LIGHTNING ON VENUS
23 JUL 1990 3p NASA RELEASE 90-101

P90-10102
U.S. AND CANADIAN SCIENTISTS COOPERATE IN ATMOSPHERIC STUDY
23 JUL 1990 2p NASA RELEASE 90-102

P90-10103
NEW MOON DISCOVERED ORBITING PLANET SATURN
24 JUL 1990 2p NASA RELEASE 90-103

P90-10104
STATEMENT BY NASA DEPUTY ADMINISTRATOR ON LAUNCH OF CRRES/ATLAS-1
25 JUL 1990 1p NASA RELEASE 90-104

P90-10105
U.S. AND U.S.S.R. AGREE ON OZONE MONITORING FROM SPACE
27 JUL 1990 2p NASA RELEASE 90-105