Volume III

TELECONFERENCING

AN ANNOTATED BIBLIOGRAPHY

Compiled by
Katherine Shervis

Abstracted by
Larry Chambers    Floyd Keene
William Horne     Craig Mills

Computer Programming
by
Richard Wolfe and Roger Voytecki

Final Report
Teleconferencing Systems
PR-1282

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October 1971
In this annotated and indexed listing of works on teleconferencing, emphasis has been placed upon teleconferencing as real-time, two-way audio communication with or without visual aids. However, works on the use of television in two-way or multiway nets, data transmission, regional communications networks and on telecommunications in general are also included.

The teleconferencing technique has proven the reverse of the adage that demand creates supply. The potential for education via two-way radio, TV and telephone hookup existed long before the demand for such educational techniques. As these educational media are tested and refined, more applications for their use are found. An ever-increasing demand for their use is being created, because they have proven to be a viable extension and variance of the traditional teacher-learner situation.

The use of two-way radio and telephone hookups is increasing in education, in the medical and other professions, and in various fields of government and business. (See entry 0585.) This is due to the continually increasing demands for further and more innovative education and training coupled with the increasing inability to achieve education within the traditional time-space limitations of institutional learning.

On campuses and in other educational settings, telelectures can be used as an extension of the lecture-discussion method of instruction to off-campus students. (4114, 4972, 4973)

Some works included in this bibliography describe many ways in which the telelecture technique may be utilized as an innovative educational medium, such as item 0592 which illustrates telelecture's usefulness for multimedia experimentation. Item 4010 describes an inexpensive course enrichment program whereby U.S. State Department members are brought to the classroom via telelecture equipment to join with high school students and community members to form a seminar on foreign relations and current events. Such confrontations between students and distant communicators are carried one step further to the international sphere by Project EAR (Educational Amateur Radio) (4016) in which Harrison, New York, elementary school children exchange ideas and information with students of a rural school in Guayabicho, Ecuador. This educational tool offers to the pupil immediate verification of information read and discussed in class, instantaneous comparisons with a known environment, dramatization of concepts, and extemporaneous communication. It also provides a motivational force toward learning. The first actual use of a telelecture setup via communications satellite was held between Wisconsin secondary school French language students and Parisian secondary school English language students to demonstrate an international, cross-cultural, bilingual learning experience for the participating students. The learning possible in this situation is much greater than when lectures are merely piped into or out of the classroom.
The medical profession are also in the vanguard of those utilizing teleconferencing. Teleconferencing is an integral part of many regional medical communications programs. (0588, 4047, 4048, 4131, 4135)

Teleconferencing provides a means for continuing medical (0554, 4132, 4051) and paramedical education (4133, 4142, 4119, 4137) and provokes a sense of the need for further information among postgraduate, widely dispersed professionals.

Two-way radio communication has been used for medical assistance and rescue at sea (4121) and, experimentally, for exchange of diagnostic information and advice. (4139, 4922)

Businesses are using teleconferencing as a means of reducing travel costs and of increasing the frequency and extent of contact. Teleconferencing offers instantaneous, inexpensive, simple contact between the home office and an extensive number of field offices or between collaborating companies. (0420) Teleconferencing can facilitate training programs without removing the employee from his daily working and living routines for more than a few hours per week.
GUIDE TO THE USE OF THE BIBLIOGRAPHY

The bibliography is made up of three parts: a Record Identification Index, an Author Index, and a Permuted Index.

The Record Identification Index, noted on the print-out as the RECID INDEX, is a list of abstracted references to books, parts of books, journal articles, conference papers, news items and unpublished papers. The items on the list appear in order of accession, with the accession number—the record identification number—printed out at the left and the right of each citation. Each entry is made up of five parts: author, title, source, key words and abstract.

The Author Index relists the record alphabetically by author's surname or by the corporate body of authorship. News items with no stated authorship and having no author listing do not appear in the Author Index.

The Permuted Index serves as a subject index. It is a KWOC (Key Word Out of Context) index which is generated by the computer permutation of the significant words within the titles and of supplementary key words. The key words are important subject words which do not appear in the title but which describe the content of the material cited. A KWOC index is based on the same principles as a KWIC (Key Word in Context) index, but is printed out in a more readable format. While a KWIC index prints out only one line of the title, focusing upon the word being permuted within the context of the phrase, the KWOC index prints out the word to the left, repeating the entire title, the key words and the record identification number to the right. Each word of the title and each key word then serves as a subject heading.

The full reference with key words and abstract in the examples below appears in the Recid Index in its numeric position between 0427 and 0429; it appears without the key words and abstract in the Author Index under BOSWELL, JOHN J., MCKER, DONALD W. and HAMLIN, WILLIAM C.; and finally its title, key words and record identification number appear under the subject headings formed by the title words EXPERIMENT; REMOTE, TEACHING and TELELECTURE, and under the subject headings formed by the key words SAINT-LOUIS, MISSOURI-UNIV, ADULT-ED, EXTENSION, CREDIT-COURSES, PSYCHOLOGY, EVALUATION-PRE-AND-POST-TESTING and EVALUATION-CONTROL-GROUP. The title does not appear under the headings because these and other trivial words such as articles, prepositions, adverbs and some verbs are programmed to be rejected by the computer for permutation. In consulting the Permuted Index, the user will find only the title, the key words and the record identification number, and with the help of this number, must refer back to the Recid Index for full identification of the citation.
In a research program initiated recently by the University of Missouri at St. Louis, telelectures were found to be an effective and economic aid to off-campus adult education. Telelectures provide...
The citations themselves are divided into three parts: author, title and source.

The author statement is simply the identification of the individual, individuals or corporate bodies responsible for the work's intellectual content. The authors can be listed in such a way that the computer program will list the citation in the Author Index under more than one author. We have made use of this capacity to enrich the Author Index with second authors or identifying phrases. While H. D. Perraton, D. A. Wade and J. W. Fox are the authors of citation 4930, they worked within the context of a research unit and might also be identified by the entry, National Extension College, Inter-University Research Unit. By listing citation 4930 under each of these four author entries, coverage is expanded and the connection between this work and other works by the Inter-University Research Unit is drawn.

<table>
<thead>
<tr>
<th>AUTHOR INDEX</th>
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<tr>
<td>FOX, J.W. *** PERRATON, H.D. * WADE, D.A. * NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT</td>
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<td>NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT *** PERRATON, H.D. * WADE, D.A. * FOX, J.W.</td>
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The titles are altered in several ways because of computer systems limitations. Commas and periods are substituted where colons, semicolons and question marks occurred in the originals. Hyphens are used as a device to link two or more words so that they will be treated as a one-word unit for permutation by the computer. This is done simply to limit the occurrence of less meaningful subject headings. The phrases HEAD-START, LOS-Angeles and TWO-WAY are adequately represented by their appearance under the linked headings and the headings START, ANGELES and WAY need not occur without their antecedents.

The sources vary from the simple imprint, containing the information of place, publisher and date, such as in citation 4930, CAMBRIDGE, NATIONAL EXTENSION COLLEGE, 1969, to more complex imprints, containing statements contrived to explain the availability of the work as best we can. Journal articles fall somewhere in between. The style used for these sources shows the title, volume, paging and date.
Some of the citations are analytics, with each chapter listed separately. The source shows the paging for the chapter or article, and the full citation of the book in which it appears.
<table>
<thead>
<tr>
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<tr>
<td>ACE</td>
<td>Association for Continuing Education</td>
<td>IBM</td>
<td>International Business Machines</td>
<td>WASB</td>
<td>Wisconsin Association of School Boards</td>
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<tr>
<td>AT+T</td>
<td>American Telephone and Telegraph</td>
<td>IRMP</td>
<td>Intermountain Regional Medical Program</td>
<td>WATS</td>
<td>Wide area telephone service</td>
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<tr>
<td>CAI</td>
<td>Computer assisted instruction</td>
<td>ITFS</td>
<td>Instructional television fixed service</td>
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<tr>
<td>CATE</td>
<td>Center for the Creative Application of Technology to Education (Texas A+M University)</td>
<td>JCET</td>
<td>Joint Council on Educational Telecommunications</td>
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<td>Cable television</td>
<td>LDX</td>
<td>Long distance xerography</td>
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<tr>
<td>CCCIC</td>
<td>Carbon County Coordinated Instructional Center (Wyoming)</td>
<td>MEDIC</td>
<td>Medical Education's Dedicated Instructional Channel</td>
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<td>CCTV</td>
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<td>NASA</td>
<td>U.S. National Aeronautics and Space Administration</td>
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<td>CIC</td>
<td>Committee on Instructional Cooperation</td>
<td>NATO</td>
<td>North Atlantic Treaty Organization</td>
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<td>CIRM</td>
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<td>NEA</td>
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<td>PEC</td>
<td>Program Evaluation Checklist</td>
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<td>SCA</td>
<td>Subsidiary Communications Authorization</td>
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<tr>
<td>EKG</td>
<td>Electrocardiogram</td>
<td>SUC</td>
<td>State University College (New York)</td>
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<tr>
<td>ERP</td>
<td>Effective radiated power</td>
<td>UNIVEX</td>
<td>Communications loop used by University of Illinois Division of University Extension</td>
<td>UNIVEX</td>
<td>Communications loop used by University of Illinois Division of University Extension</td>
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<td>Title III of the Elementary and Secondary Education Act</td>
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<td>U.S. Federal Communications Commission</td>
<td>UCLA</td>
<td>University of California at Los Angeles</td>
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<td>GE</td>
<td>General Electric</td>
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<td>General Telephone and Electronics</td>
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SUGGESTIONS FOR EFFECTIVE TELE-LECTURE PRESENTATIONS

American Telephone and Telegraph. Brochure. N.P., N.D.

The AT&T Handbook Presents Suggestions to Speakers, Coordinators, and Moderators of Tele-Lectures. Containing many lists of helpful hints, the handbook advises lecturers in the areas of 1) Enhancing the prior knowledge of both speaker and audience, 2) Improving presentation skills such as vocal characteristics and timing, 3) Using visual aids, 4) Using a Telewriter, and 5) Planning what should occur immediately prior to a session. Suggestions to conference coordinators are made in the areas of 1) Room arrangement, seating, and equipment, 2) Placing the call, and 3) Introducing the session. A list of helpful hints for tele-lecture moderators is also included.

WITKIRE, WALKER C.

AVIATION WEEK AND SPACE TECHNOLOGY 93,6, P43-46, FEB 19, 1969

This article describes how the Boeing Co. uses teleconferencing for meetings between employees connected with the company's Apollo tie contract. Some specifics of the relevant technology are given. Linking together as many as 250 employees, Boeing's blue net leased lines are used for audio purposes, and a Xerox LDX Telephotography system is used for visual effects. Closed circuit television was considered, but the LDX system is much less expensive. The LDX terminals are connected by the Bell System's Telepak, a wide-band leased circuit which Federal Legislation required Boeing to rent on a full-time basis, even though it is not used at all times. Also utilized are Thermofax machines and rear screen projectors. Meetings are held at teleconferencing theaters in Boeing complexes throughout the country. Both routine and ad hoc conferences of varying sizes are held, and, at times, joint NASA-Boeing meetings are convened. Group discussions generally follow a presentation, and regional chairmen can switch specific stations 'in' or 'out' of an un-going meeting. The article concludes with a list of potential improvements.

BLACKWOOD, HELEN * THENT, CURTIS

A COMPARISON OF THE EFFECTIVENESS OF FACE-TO-FACE AND REMOTE TEACHING IN COMMUNICATING EDUCATIONAL INFORMATION TO ADULTS

Research studied the effectiveness of class lecture as compared to telelecture, and the association between amount learned and the personal and situational factors of age, level of education, time of day, and attitude. Pretests and posttests collected level of knowledge and personal information from 71 women during a short course on money management given by University Extension specialists in Reno County. The sample was randomly divided into an experimental and control group. It was found that no significant difference in amount of learning existed. Several tendencies, not statistically significant, were revealed. Age was negatively associated with amount learned; level of education was positively associated with pre and posttest scores. Scores were higher in the afternoon than morning, although attitudes were higher in the morning. It was concluded that either teaching technique could be used resulting in similar amounts of learning. Implications for extension workers and use of remote teaching techniques are included.

Sinaiko, H. Wallace

Preliminary Experiments in Teleconferencing


Experimental study of the use of teleconferencing as an efficient means of group communication. Teleconferencing refers to the conduct of conferences when there are three or more conferencees, conferencees are remote from one another and not all participants speak the same language. The Institute for Defense Analyses performed a study to learn whether intermin procedures could be specified to enable teleconferences to be conducted efficiently in the near future and what additional research was needed to fill gaps in current knowledge relevant to teleconferencing. A laboratory for conducting experiments in teleconference procedures was established, and five series of experiments run. The laboratory work included telfype, telephone, and television communication media and was done to provide flexible means for varying network structures, chairmanship roles, language services, and conference tasks. It was found that, for negotiation or bargaining among remote conferencees, the most impersonal media were preferred.

Atherton, Lawrence L.

Classroom Party-Line

Ohio Schools 42, P254, Dec 1964

Yellow Springs High School, Ohio, has initiated in cooperation with Ohio Bell a telelecture system using amplified speaker phones to bring specialized information into the classroom. Telelectures were used in the high school's American government course in conjunction with a discussion of Ohio's complex welfare system. It was felt that representatives from federal, state and private programs could best explain their respective programs and that using the telelecture technique would alleviate travel costs and inconvenience. Installation cost was approximately 30 dollars to run extension lines from existing phones to classrooms. Portable phone and speaker attachment rental was seven dollars per month. CM
**TELECONFERENCE, AN ANNOTATED BIBLIOGRAPHY**

0427 ***

**BLOCK-ISLAND (A PACE PROJECT)**

**AMERICAN EDUCATION 2,10, P9, NOV 1966**

0428C ***

**BOSWELL, JOHN J. • MOCKER, DONALD W. • HAMLIN, WILLIAM C.**

**TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING**

**ADULT LEADERSHIP 16,9, P321-2+, MARCH 1968**

**SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-PRE-AND-POST-JUSTIFING EVALUATION-CONTROL-GROUP**

**IN A RESEARCH PROGRAM INITIATED RECENTLY BY THE UNIVERSITY OF MISSOURI AT ST. LOUIS, TELELECTURES WERE FOUND TO BE AN EFFECTIVE AND ECONOMIC AID TO OFF-CAMPUS ADULT EDUCATION. TELELECTURES PROVIDE TEACHER-STUDENT CONTACT WITHOUT DRAINING THE RESOURCES OF TRAINED TEACHERS. THE INITIAL ST. LOUIS EXPERIMENT PRESENTED THE SAME INTRODUCTORY PSYCHOLOGY COURSE TO THREE DIFFERENT GROUPS. ONE GROUP WAS A CONTROL GROUP (N-64) WHICH RECEIVED A TRADITIONAL LECTURE ON THE HOME CAMPUS. THE SECOND GROUP (N-63) ALSO ON THE HOME CAMPUS, RECEIVED A LIVE LECTURE WHICH WAS SIMULTANEOUSLY TRANSMITTED TO THE THIRD GROUP (N-22) LOCATED IN A REMOTE CLASSROOM. RELEVANT VARIABLES WERE VERY CLOSELY REGULATED, AND SCORES BEFORE AND AFTER THE COURSE INDICATED ALMOST NO DIFFERENCE IN LEARNING AMONG THE THREE GROUPS. THE UNIVERSITY OFFERED 9 CREDIT COURSES IN 1966-67 VIA OFF-CAMPUS TELELECTURE. **ONe PROBLEM IN THESE COURSES WAS THAT THE AUDIO SYSTEM TECHNICALLY COULD NOT HANDLE ADEQUATELY A FREE EXCHANGE OF IDEAS BETWEEN A PROFESSOR AND HIS STUDENTS. **A SECOND PROBLEM WAS THAT PROFESSIONALS ASSUMED TOO MUCH PRIOR KNOWLEDGE BECAUSE OF A LACK OF PERCEIVABLE FEEDBACK. HOWEVER, THIS PROBLEM DID NOT ARISE IN A SUCCESSFUL SERIES OF TELELECTURES WHICH DID NOT HAVE ON-THE-Spot AUDIENCES. **FK**

0429A ***

**BUSINESS GETS EYE-TO-EYE BY PHONE**

**BUSINESS WEEK, P30-1, AUGUST 14, 1965**

**PICTUREPHONE AT&T UNION-CARBIDE**

**UNION CARBIDE IS COOPERATING WITH AMERICAN TELEPHONE AND TELEGRAPH COMPANY IN THE FIRST BROAD BUSINESS TEST OF PICTURE-PHONES. PICTURE-PHONES CUT DOWN UN INTEROFFICE VISITS WITHOUT UPSETTING PEOPLE OF THE SENSE OF HAVING VISITED. AT&T IS CONSIDERING WIDE-ANGLE LENSES FOR CONFERENCES, MAGNIFYING LENSES FOR BETTER DISPLAY OF OBJECTS AND CHANGES IN THE PICTURE-PHONE ITSELF. **YA**

0430C ***

**CHRISTIANA, CIEL**

**LONG-DISTANCE LECTURES BRING EXPERTS TO THE CLASSROOM**
In July of 1963, Dr. Moses Hadas delivered the first of 18 lectures to 500 students from four different Southern Negro colleges on Greek drama. Educators were attempting to answer the question of how to give students the best education with limited funds. This interschool link was accomplished through the use of telephones and amplified speakers at both ends. The two-way amplified phone conversation consisted of both Dr. Hadas' lecture and a question and answer period. Although this system will normally operate on regular telephone lines, 15 minutes of the first lecture were sent via Telstar II to illustrate satellite capability.

**New Approach to In-service Education. Greater Cleveland Social-Science Program**

Educational Screen and Audiovisual Guide 45, 5, P28+, May 1966
DEW-LINE FOR DRUGS

NEWSWEEK, P55, JAN 15, 1962

MEDIPHONE WASHINGTON-DC GEORGE-WASHINGTON-UNIV CURRENT-AWARENESS DIAL-ACCESS MEDICINE PHARMACEUTICALS

MEDIPHONE, HEADQUARTERED IN WASHINGTON, D.C., IS A TELEPHONE DIAL ACCESS SERVICE FOR LICENSED PHYSICIANS, DESIGNED TO PROVIDE THEM WITH UP-TO-DATE INFORMATION ON THE LATEST DEVELOPMENTS IN DRUGS. THE RESPONSE INCLUDES THE NAMES OF DRUGS, DOSAGES, SIDE EFFECTS AND WHAT TO DO ABOUT THEM. THE AUTOMATED LIST OF INFORMATION WAS GATHERED BY RESEARCHERS AND TOOK A FULL YEAR TO COMPILE. DATA WAS COLLECTED FROM PHARMACOLOGICAL TEXTBOOKS, JOURNALS, DRUG MANUFACTURERS' BROCHURES AND ARTICLES DATING BACK TO 1946. THE FILE WILL BE KEPT UP-TO-DATE BY THE PHARMACOLOGY DEPARTMENT OF GEORGE WASHINGTON UNIVERSITY. MEDIPHONE, AS A PRIVATE ENTERPRISE, WILL CHARGE SUBSCRIBERS 20 DOLLARS A YEAR AND 3 DOLLARS FOR EACH CALL. MOST OF THIS INCOME WILL HELP TO PAY THE SALARIES OF THE PART-TIME ANSWERING PANELISTS. CM

DIAL F FCR FUTURE

SCIENCE NEWS LETTER B8, 9, P134, AUGUST 28, 1965

TELEPHONE-EQUIPMENT

THIS NEWS ITEM OFFERS A SPECULATIVE REVIEW OF POPULAR USES OF PRESENT AND NEW TELEPHONE EQUIPMENT. PUSH BUTTON PHONES, PICTUREPHONES, LOUDSPEAKER ATTACHMENTS, AUTOMATIC DIAリング, REMOTE ANSWERING DEVICES, MORPHINE PHONES, ADVANCED ELECTRONIC SWITCHING, WRIST PHONES AND LASER BEAMS ARE SOME OF THE TECHNOLOGICAL ADVANCES WHICH MAKE NEW SERVICES POSSIBLE. SOME NEW SERVICES INCLUDE ABBREVIATED DIALING, DIAL CONFERENCES, VIALABLE CALL TRANSFERS, CALL MACHINING, INTERNATIONAL AND OTHER LONG DISTANCE CONFERENCES, DATA TRANSMISSION AND REMOTE CONTROL OPERATIONS. CM

FACSIMILE BY PHONE OFFERED BY XEROX

BUSINESS WEEK, P76, MAY 7, 1966

TELECOPIER MAGNAVOX-CU COST

THIS SHORT NEWS ITEM INTRODUCES A "NON-XEROGRAPHIC MACHINE THAT SENDS AND RECEIVES FACSIMILES OVER ANY LONG-DISTANCE, VOICE QUALITY TELEPHONE LINE. DEVELOPED BY MAGNAVOX CO. AND CALLED A TELECOPIER, IT ALLOWS USERS TO DIAL ANYONE WITH A SIMILAR DEVICE AND TRANSMIT BY SIMPLY PLACING THE PHONE HANDSET ON THE MACHINE'S CRADLE." THE TELECOPIER, TO BE MARKETED AND SERVICED BY THE XEROX CORPORATION, WILL BE LEASED FOR 35 DOLLARS A MONTH PLUS A METER CHARGE OF 2.5 CENTS PER MINUTE. CM
INNOVATIONS DOSTER IN-SERVICE PROGRAMS

WISCONSIN JOURNAL OF EDUCATION 100,3, P18-9, NOV 1967

UNDER THE DIRECTION OF E. J. SCHARRSMITH, THE WISCONSIN STATE UNIVERSITY-STEVENS POINT IS THE HEADQUARTERS FOR A TELELECTURE PILOT PROGRAM AND A PARAPROFESSIONAL PILOT PROGRAM FOR CENTRAL WISCONSIN CITIES, INCLUDING ANTIGO, MERRILL, ROTHSCILD-SCHOEFIELD AND WAUSAU. MADE POSSIBLE THROUGH TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT, THESE TWO IN-SERVICE PROGRAMS ARE FINANCED BY FEDERAL FUNDS. THE TELELECTURE PROGRAM INVOLVES A SERIES OF INTERCONNECTED 'HOT LINES' THROUGH WHICH PERSONS IN VARIOUS LOCATIONS CAN CONVERSE. THE PROGRAM'S NAME WAS CHANGED FROM TELELECTURE TO TELEWRITER AFTER AN ELECTROWRITER WAS INCORPORATED INTO THE SYSTEM AS A VISUAL AID. LECTURES AND CONFERENCES TAKE PLACE ACCORDING TO A PRE-ARRANGED SCHEDULE. IN THE USUAL FORMAT, TEACHERS RECEIVE A LECTURE BY A STEVENS POINT PROFESSOR WHO DOES NOT HAVE TO BE CONCERNED ABOUT TRAVELING IN ORDER TO REACH HIS STUDENTS. GROUP SIZE RANGES FORM 2 TO 14 PARTICIPANTS AT EACH RECEIVING STATION. EVALUATION SHEETS ARE FILLED OUT BY THOSE TEACHERS IN ATTENDANCE FOLLOWING EVERY SESSION. A PARAPROFESSIONAL (TEACHER AID) PROGRAM IS ALSO BEING CONSIDERED BY THE SAME CITIES WHICH ARE INVOLVED WITH THE TELEWRITER PROGRAM.

NEW DEVELOPMENTS IN EDUCATIONAL TELECOMMUNICATIONS

AUDIOVISUAL INSTRUCTION 11,5, P442, JUNE-JULY 1966


MEET THE SPOKESMAN

AUDIOVISUAL INSTRUCTION 9,4, P236, APRIL 1964

THE SPOKESMAN, A DEVICE WHICH AMPLIFIES A TELEPHONE CONVERSATION SO THAT A WHOLE CLASS CAN LISTEN TO IT, HAS GIVEN YOUNG STUDENTS MANY NEW EXPERIENCES IN FIRSTHAND EXCHANGE WITH EXPERTS IN NUMEROUS FIELDS. THE SPOKESMAN, WHICH IS BOTH LOW IN COST AND SIMPLE TO OPERATE, PROVIDES AN ALMOST UNLIMITED NUMBER OF OPPORTUNITIES FOR TWO-WAY EXCHANGE BETWEEN SCHOOL AND COMMUNITY. IT IS CURRENTLY BEING INSTALLED IN MANY SAN DIEGO SCHOOLS.
LEWIS, PHILIP
TELECOMMUNICATIONS, NEW PARTY-LINE FOR EDUCATION
NATION'S SCHOOLS 78, 3, P114, SEPT 1966

// HISTORY-TELECONF COST ELECTROWRITER FACSIMILE SLOW-SCAN-TV

LEWIS DESCRIBES THE TELELECTURE TECHNIQUE AS AN EFFECTIVE METHOD OF INFORMATION EXCHANGE, TOUCHING ON THE HISTORY OF THE USE OF TELELECTURES IN EDUCATION. HE DESCRIBES HOW TELELECTURES WORK, AVAILABLE EQUIPMENT, COSTS AND POSSIBLE APPLICATIONS. EQUIPMENT DESCRIBED INCLUDES TELEPHONE TELELECTURE HOOKUP, ELECTROWRITER, SLOW-SCAN TV AND FACSIMILE. CM

MADDEN, CHARLES F.
GIVE A RING, GET A LECTURE. TELEPHONES IN THE SOUTHERN STATES
TIMES (LONDON EDUCATIONAL SUPPLEMENT), P2557-79, OCT 9, 1964

TIMES (LONDON EDUCATIONAL SUPPLEMENT), P2557-79, OCT 9, 1964

MCDIVITT, HELEN
TEACHING BY CLOSED-CIRCUIT TELEPHONE IN NINE CENTRAL SCHOOLS
CLEARING HOUSE 38, 7, P446-8, MARCH 1964

MCDIVITT OUTLINES THE VARIOUS WAYS IN WHICH THE TELEPHONE HAS BEEN USED BY NINE SCHOOLS IN EASTERN NEW YORK STATE. EACH SCHOOL IS FROM TWO TO 34 MILES AWAY FROM SOUTH KORTRIGHT, WHERE A CENTRAL SWITCHBOARD CONNECTS EACH BY CLOSED CIRCUIT TELEPHONE TO THE OTHERS AND TO THE OUTSIDE WORLD. THE EXPERIMENT WAS INITIATED IN 1962 TO SUPPLEMENT REGULAR INSTRUCTION BY ALLOWING SCHOOLS TO ESTABLISH CONTACTS WITH OUTSIDE SPEAKERS. THE SUCCESS OF THIS PROGRAM LED TO THE USE OF THE SYSTEM FOR INSERVICE TEACHER TRAINING. INSTRUCTION IN MODERN MATH IS TO BE PROVIDED BY PHONE, IN CONNECTION WITH FILMS, TAPE-RECORDED LESSONS AND TELEPHONIC WRITING EQUIPMENT. THE TELEPHONE LINES HAVE ALSO BEEN USED FOR INTERNATIONAL EXCHANGE, LANGUAGE INSTRUCTION, TEACHER SHARING, ADMINISTRATIVE DISCUSSION BETWEEN SCHOOLS, EXTRA-CURRICULAR ACTIVITIES AND SPEECH THERAPY. INDEED, THE POSSIBILITIES SEEM TO MULTIPLY. "ONE INTEREST LEADS INTO ANOTHER OR INTO THREE OR FOUR OTHERS." CONVERSATION HAS DISTINCT ADVANTAGES OVER OTHER FORMS OF INFORMATION PRESENTATION. "THE MOST IMPORTANT BENEFIT CAME FROM THE DIRECT TWO-WAY CONTACT BETWEEN SPEAKER AND STUDENTS." WH
NEW TELEPHONE LEARNING TECHNIQUES

BASHEET 46, 4, P197, DEC 1964

// NEWFOUNDLAND-CITY NEW-JERSEY WEST-MILFORD-TOWNSHIP-HIGH-SCHOOL SECONDARY-ED
COURSE-ENRICHMENT NEW-JERSEY-BELL-TELEPHONE-CO

THIS ARTICLE DESCRIBES THE TELECONFERENCING EXPERIENCES OF STUDENTS AT WEST MILFORD TOWNSHIP HIGH SCHOOL, NEWFOUNDLAND, NEW JERSEY. DEVELOPED BY THE NEW JERSEY BELL TELEPHONE CO., THE EQUIPMENT USED ALLOWS STUDENTS TO TALK WITH AND HAVE THEIR QUESTIONS ANSWERED BY NOTED PERSONALITIES. THE EQUIPMENT CONSISTS OF FOUR LOUDSPEAKERS AND SIX MICROPHONES PLUGGED INTO REGULAR TELEPHONE LINES. THE TELECONFERENCE TECHNIQUE IS USED FOR COURSE ENRICHMENT THROUGH CONTACT WITH FAMOUS PERSONS. THE AUTHOR ALSO NOTES THAT CALLS TO LESS DISTINGUISHED PERSONS CAN GREATLY AID THE EDUCATIONAL PROCESS. FR

LECTURES ON THE PHONE, TELELECTURES

TIME, P37, JULY 19, 1963

// MISSISSIPPI CLASSICS SATELLITE TELSTAR-II

A BRIEF ACCOUNT OF HOW MOSES HADAS, A NOTED CLASSICIST, PRESENTED AN HOUR’S TELELECTURE TO A CLASS IN MISSISSIPPI. PART OF HIS LECTURE WAS BOUNCED OFF TELSTAR II TO DEMONSTRATE THAT TELELECTURES CAN BE TRANSMITTED TO OTHER PARTS OF THE WORLD. THE PRESENTATION WAS LESS COSTLY THAN INVITING HADAS TO MISSISSIPPI. YA
**MEYERS, E.A. (AND OTHERS)**

BLACKBOARD-BY-WIRE AND GRADUATE INSTRUCTION IN CHEMISTRY

JOURNAL OF CHEMICAL EDUCATION 44, P452-3, AUGUST 1967

**MONDABAU, J.D.**

SIX EXPERIMENTAL TELELECTURES

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45, 5, P32-3, MAY 1966

**MOORE, J. MICHAEL**

TELECOMMUNICATIONS IN FL INSTRUCTION

AUDIOVISUAL INSTRUCTION 10, 8, P656, OCT 1965

// SAN-DIEGO CALIFORNIA WEST-GERMANY INTERNATIONAL-TELECONF SECONDARY-ED COURSE-ENRICHMENT GERMAN-LANGUAGE VISUAL-AIDS

A HIGHLIGHT OF THE AMERICAN PUBLIC SCHOOLS WEEK HELD IN SAN DIEGO IN APRIL 1964 WAS A TRANSATLANTIC TELEPHONE INTERVIEW OF WEST GERMAN VICE-PRESIDENT ERICH MENDE BY STUDENTS ENROLLED IN GERMAN CLASSES OF THE SAN DIEGO UNIFIED SCHOOL DISTRICT. VISUAL AIDS WERE EMPLOYED DURING THE INTERVIEW, WHICH WAS BROADCAST OVER A GERMAN RADIO NETWORK ALSO. GROUNDWORK FOR THE EXPERIMENT WAS LAID BY THE AUTHOR IN GERMANY IN 1964. FK
TELECONFERENCE, AN ANNOTATED BIBLIOGRAPHY

RECID INDEX

0453

*** MORTON, BERRY C. * BURNS, RICHARD L.

TELELECTURE IN INDUSTRIAL EDUCATION

INDUSTRIAL ARTS AND VOCATIONAL EDUCATION 55,6, P46, JULY 1966

0458C

*** PAUL, ALDRICH K.

NEW CONCEPT IN SHARING SPEECH PROFESSORS

SPEECH TEACHER 13/14, P77-9, JAN 1965

// NEBRASKA OMAHA-UNIV OHIO CINCINNATI-UNIV HISTORY-TELECONF HUMAN-FACTORS COST NORTHWESTERN-BELL-TELEPHONE-50


0461C

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PICTUREPHONE

SCIENTIFIC AMERICAN 211,1, P48, JULY 1964

// NEW-YORK-CITY CHICAGO WASHINGTON-DC COST SPECTRUM-USE AT&T

AT&T IS INSTALLING A COMMERCIAL PICTUREPHONE SERVICE BETWEEN NEW YORK, CHICAGO AND WASHINGTON IN JUNE, 1964 TO TEST PUBLIC INTEREST AND REACTION. THIS IS THE FIRST DIALABLE VISUAL TELEPHONE SYSTEM WITH AN ACCEPTABLE PICTURE THAT HAS BEEN BROUGHT WITHIN THE RANGE OF ECONOMIC FEASIBILITY. THE COST FOR A 3-MINUTE CALL BETWEEN WASHINGTON AND CHICAGO IS 21 DOLLARS. A PICTUREPHONE TRANSMISSION REQUIRES 125 TIMES AS MUCH OF A BANDWIDTH AS A VOICE-ONLY-TRANSMISSION DUPS. CM
PICTUREPHONE DEVELOPED FOR COMMERCIAL USE

SCIENCE NEWS LETTER 86, 5, P73, AUGUST 1, 1964

COMMERCIAL PICTUREPHONE SETS ARE AVAILABLE FOR USE BY APPOINTMENT IN NEW YORK, CHICAGO AND WASHINGTON. PUBLIC REACTION TO THE SETS MUST BE MEASURED BEFORE THE SETS BECOME WIDELY AVAILABLE. DEVELOPMENT WORK BY BELL LABS CONTINUES ON THE FEASIBILITY OF CONFERENCE PICTUREPHONE USAGE AND ON MAKING PRINTED MATERIALS EASIER TO SEE AND READ OVER THE VIDEO CIRCUIT. CM

SIX WORKSHOPS RECEIVE KEY PRESENTATIONS VIA TELELECTURE

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45, 5, P29+, MAY 1966

TELELECTURE BRINGS FAMOUS DESIGNER TO TEXTILE AND CLOTHING STUDENTS

JOURNAL OF HOME ECONOMICS 58, 1, P48-9, JAN 1966

SPREADING THE WORD ON THE NEW MATH

BUSINESS WEEK, P110-2, APRIL 10, 1965

THE NORTHWEST-IOWA-TELEWRITER PROJECT MADE USE OF TELEPHONE LINES AND THE VICTOR ELECTROWRITER TO TEACH THE NEW MATH TO SOME 2,250 PARENTS AND ELEMENTARY SCHOOL TEACHERS. LECTURES GIVEN BY INSTRUCTORS IN CHICAGO, URBANA, ILLINOIS, AND CEDAR FALLS, IOWA WERE RELAYED TO SEVEN SCHOOL HALLS IN NORTHWEST IOWA, UP TO 500 MILES AWAY FROM THE SOURCE. SLIDES OF THE LECTURER WERE USED "TO KEEP INTEREST HIGH." MICROPHONES ALLOWED THE STUDENTS TO ASK QUESTIONS AND THE ELECTROWRITER FLASHED THE TEACHERS' DIAGRAMS ONTO EIGHT-FOOT SCREENS AT EACH LOCATION. SPECIAL INSTRUCTIONAL PAMPHLETS WERE DESIGNED AND PURCHASED FROM ENCYCLOPEDIA BRITTANICA. THE PROJECT, WHICH WAS FINANCED BY THE FORD FOUNDATION, THE FEDERAL GOVERNMENT AND LOCAL EDUCATION GROUPS, SEEMS TO HAVE BEEN HIGHLY SUCCESSFUL. IT HAS HELPED TO INVOLVE PARENTS MORE FULLY IN THE EDUCATION OF THEIR CHILDREN AND IT HAS PROVIDED TEACHERS WITH NECESSARY INSERVICE TRAINING. UNLIKE TELEVISION, THIS METHOD OF MASS INSTRUCTION PERMITS AUDIENCE RESPONSE AND SO ALLOWS THE INSTRUCTOR TO ADAPT HIS PRESENTATION CONTINUALLY TO HIS AUDIENCE. FURTHERMORE, THE EXPENSE IS ESTIMATED TO BE "...ONE-THIRTIETH THAT OF CLOSED-CIRCUIT TELEVISION BROADCASTS OF A SIMILAR NATURE." WH

LAKEWOOD, TELEPHONES HELP STUDENTS STUDY FRENCH AND SPANISH

NATION'S SCHOOLS 70, 4, P90, OCT 1966

FRENCH AND SPANISH LANGUAGE STUDENTS IN HIGH SCHOOLS IN LAKEWOOD, COLORADO PARTICIPATED IN A SUPPLEMENTARY INDIVIDUAL INSTRUCTION PROGRAM. TAPE-RECORDED LESSON DRILLS WERE MADE AVAILABLE TO THE 375 LANGUAGE STUDENTS VIA A TELEPHONE DIAL ACCESS SYSTEM. THE PROJECT WAS EVALUATED BY QUESTIONNAIRES ANSWERED BY THE STUDENTS AFTER 3 MONTHS. SEVENTY-TWO PER CENT FELT THAT THE DRILL LESSONS WERE HELPFUL. SIXTY-THREE PER CENT THOUGHT THAT EVEN NEW LANGUAGE LESSONS COULD BE LEARNED BY THE TELEPHONE DIAL ACCESS TECHNIQUE. STUDENTS INDICATED THAT THEY WOULD LIKE TO USE THE DIAL ACCESS TAPES DURING THE ENTIRE YEAR. ALTHOUGH THE EXPERIMENT WAS SMALL AND INFORMAL, THE AUTHOR FEELS THAT IT DID POINT THE WAY TO FUTURE PILOT STUDIES USING THE TELEPHONE AS A TEACHING TOOL. CM
HOMEBOUND-CHILDREN OMAHA-UNIV VISUAL-AIDS COST AT-T

TWO EDUCATIONAL APPLICATIONS OF THE TELEPHONE IN THE UNITED STATES ARE REPORTED IN THIS NEWS ARTICLE. THE FIRST USE IS AN AMPLIFIED TELEPHONE SYSTEM BY MEANS OF WHICH HOMEBOUND STUDENTS CAN HEAR ALL THAT OCCURS IN THE CLASSROOM AND CAN PARTICIPATE IN THE LESSONS. FOURTH GRADERS THROUGH COLLEGE STUDENTS CAN USE THIS SYSTEM. COST FOR THE EQUIPMENT AND OPERATION IS USUALLY ABSORBED BY THE EDUCATION AUTHORITIES OR LOCAL ORGANIZATIONS. THE SECOND DEVELOPMENT IN THE USE OF THE TELEPHONE IN EDUCATION IS THE TELELECTURE. A RECENT LECTURE SERIES AT OMAHA UNIVERSITY INCLUDED TELELECTURES BY TWO FAMOUS ELIZABETHAN SCHOLARS - ONE LECTURER AT CORNELL UNIVERSITY AND THE OTHER IN LONDON. THESE LECTURES WERE SUPPLEMENTED BY VISUAL-AIDS AND STUDENTS ASKED QUESTIONS THROUGH THEIR CHAIRMAN. THE ARTICLE REPORTS THAT TWO-WAY TELEPHONE COMMUNICATION PROVIDED AN ENHANCED FEELING OF UNITY BETWEEN LECTURER AND CLASS. ONE STATE UNIVERSITY LECTURER REVEALED THAT HE FELT AN EVER GREATER URGE TO COMMUNICATE THAN WHEN HE COULD SEE HIS AUDIENCE. THE SAVINGS IN COST, TRAVEL AND TIME ARE NOTED.

PICTUREPHONE AS A PHOTO TOOL

THE EDITOR OF THE MAGAZINE, POPULAR PHOTOGRAPHY, MADE USE OF THE PICTUREPHONE LINK BETWEEN NEW YORK AND CHICAGO TO ASK A PROFESSIONAL PHOTOGRAPHER TO SHOW HIM A PORTFOLIO OF THE PHOTOGRAPHER'S PRINTS OVER THE LINE. A TIME WAS ARRANGED AND SOME THIRTY PRINTS WERE HELD UP TO THE CAMERA IN CHICAGO. THE EDITOR CHOSE A PICTURE FOR INCLUSION IN THE 1966 EDITION OF PHOTOGRAPHY ANNUAL. THE PICTUREPHONE IMAGE IS ONLY FOUR AND THREE-EIGHTHS BY FIVE AND THREE-FOURTHS INCHES, BUT THE RESOLUTION IS GOOD. EXCEPT FOR FOCUSING, IT OPERATES AUTOMATICALLY - ADJUSTING CONTRAST AND ADAPTING TO ILLUMINATION RANGING FROM 5 TO 100 FOOT CANDLES. IT INCLUDES AUTOMATIC SYNCHRONIZATION TO ELIMINATE THE NEED FOR HORIZONTAL OR VERTICAL CONTROLS.

MAKING CURRENT-EVENTS REAL FOR STUDENTS

THIS NEWS ITEM NOTES HOW HIGH SCHOOLS IN OSWEGO, NEW YORK HAVE UTILIZED TELELECTURES TO BRING MANY FAMOUS AND IMPORTANT FIGURES INTO THE CLASSROOM. REGULAR LONG DISTANCE TELEPHONE CALLS ARE HEARD OVER THE SCHOOL LOUDSPEAKER SYSTEM. COSTS INCLUDED APPROXIMATELY 100 DOLLARS FOR LINE CHARGES AND 200 DOLLARS FOR SPEAKERS' FEES. SESSIONS ARE TAPE RECORDED FOR FUTURE USE.
**HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING**

**Delay Echo Bell-Labs**

*Telephone calls routed via satellite involve long transmission paths which in turn require significant transmission times even at the speed of light. This transmission time produces a delay in speech transmission of about 0.3 seconds in each direction for a synchronous satellite. Although the delay itself is not usually noticed by the talkers, it significantly increases the disturbing effects of echo and mutilation of speech by the echo suppressors so that the overall quality of the circuit, as judged by the users, suffers. Charts and graphs accompany this article to illustrate the correlations between delay and difficulty of hearing and talking in field and laboratory simulations as well as actual circuit tests. Author's abstract with note by CM.*
GLENN, EDMUND S.

TELECONFERENCING, LANGUAGE AND CULTURAL FACTORS

INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-109. IDA/HQ 64-2314, NOV 1963

// INTERNATIONAL-TELECONF INTERPRETATION TRANSLATION CROSS-CULTURAL-TELECONF

THIS PAPER DISCUSSES TYPES OF LANGUAGE TRANPOSITION SERVICES AND THEIR APPLICABILITY TO INTERNATIONAL TELECONFERENCING. THE AUTHOR NOTES THE DIFFERENCE BETWEEN SPONTANEOUS TRANSPPOSITION OF ORAL MATERIAL (I.E., INTERPRETATION) AND Meticulous TRANSPPOSITION OF WRITTEN MATERIAL (I.E., TRANSLATION). ALTHOUGH THIS DISTINCTION SOMETIMES BECOMES BLURRED IN A TELECONFERENCING SITUATION, FOUR BASIC TYPES OF TELECONFERENCING TRANSPPOSITION ARE DISCERNABLE 1) THE FULL TRANSPPOSITION METHOD 2) THE SIMULTANEOUS SIGHT METHOD, IN WHICH TRANSLATION OCCURS AT THE SAME TIME A MESSAGE IS BEING PRINTED ON A TELETYPET 3) THE SIMULTANEOUS INTERPRETATION METHOD AND 4) THE CONSECUTIVE INTERPRETATION METHOD, IN WHICH INTERPRETATION OCCURS AFTER A PARTICIPANT FINISHES SPEAKING. IN SELECTING A METHOD OF TRANSPPOSITION, THE COMPATABILITY OF TECHNIQUES AND EQUIPMENT MUST BE KEPT IN MIND. CURRENTLY, THE CONSECUTIVE INTERPRETATION SYSTEM IS USED IN HIGH LEVEL DIPLOMATICS TALKS, WHILE THE SIMULTANEOUS INTERPRETATION METHOD IS COMMON TO LARGE SCALE INTERNATIONAL CONFERENCES. IN TELECONFERENCES, SEVERAL TRANSPPOSITION POSSIBILITIES EXIST, INCLUDING 1) A ONE LANGUAGE NETWORK 2) A MULTI-LANGUAGE SIMULTANEOUS NETWORK 3) A NETWORK IN WHICH EACH TERMINAL TRANSMITS ITS OWN LANGUAGE 4) A MULTI-LANGUAGE CONSECUTIVE NETWORK 5) THE UBLIN SYSTEM, IN WHICH MANY CONSECUTIVE INTERPRETATIONS ARE DONE SIMULTANEOUSLY AND 6) THE DUPLEX NETWORK, IN WHICH THE ORIGINAL IS TRANSMITTED IN ONE DIRECTION AND AN INTERPRETATION IN ANOTHER. SINCE LANGUAGE SERVICES EFFECT TELECONFERENCES TO SOME EXTENT, IMMEDIATE ATTENTION IN THE FORM OF RESEARCH SHOULD BE GIVEN TO THE EFFICIENCY PROBLEMS OF "...TRANSLATION AND INTERPRETATION IN THEIR SEVERAL COMBINATIONS AS REQUIRED BY VARIOUS MEDIA OF COMMUNICATION." FK

SCHWARTZ, JAY W.

TELECONFERENCING, CAPACITY OF CURRENT COMMUNICATION FACILITIES

INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-110. IDA/HQ 64-2315, NOV 1963

// INTERNATIONAL-TELECONF NATO COST TECHNICAL-CONSIDERATIONS

THIS PAPER CONSISTS OF A GENERAL DISCUSSION OF THE TECHNICAL REQUIREMENTS FOR INTERNATIONAL TELECONFERENCING NETWORKS AND A CURSORY ASSESSMENT OF AVAILABLE TELECONFERENCING FACILITIES IN NATO CAPITALS. IN THE PAPER, TELECONFERENCING REQUIREMENTS ARE BROKEN DOWN INTO THREE FACTORS WHICH CAN AFFECT A TELECONFERENCE IN MANY WAYS. THESE THREE ARE BANDWIDTH, TRANSMISSION QUALITY AND SECURITY MEASURES. THE AUTHOR ASSESSES THE BANDWIDTH AND SECURITY FACILITIES WHICH EXIST BETWEEN NATO CAPITALS, NOTING THE DESIRABILITY OF ENCRYPTION VIA TELETYPET. THE AUTHOR, HOWEVER, DOES NOT ASSESS QUALITY, A VERY SUBJECTIVE CHARACTERISTIC, BUT RATHER MAKES SEVERAL OBSERVATIONS ON THE SUBJECT. THE PAPER CONCLUDES WITH A DISCUSSION OF COSTS, WHICH MAY BE SIGNIFICANTLY REDUCED IF U.S. AND NATO MILITARY CHANNELS ARE UTILIZED. FK
IN AN ATTEMPT TO SUGGEST A METHOD FOR ANALYZING TELECONFERENCE PROCEDURES, THE AUTHOR DESCRIBES THE PHYSICAL CHARACTERISTICS OF VARIOUS TYPES OF TELECONFERENCE NETWORKS AND EXAMINES THE PROCEDURAL PROBLEMS INHERENT IN THEM. THE PAPER BEGINS BY DEFINING TERMS AND EXPLAINING THE GRAPHIC SYMBOLS USED BY THE AUTHOR TO REPRESENT THE MEDIA, TERMINALS AND MODES OF TRANSMISSION USED IN VARIOUS NETWORKS. DESCRIPTIONS AND PROCEDURAL ANALYSES ARE GIVEN FOR THREE GENERAL TYPES OF NETWORKS: 1) COMMON CIRCUIT SIMPLEX NETWORKS (I.E., DELTA NETS), 2) CENTRAL CONTROL NETWORKS (I.E., Y NETS) AND 3) COMBINATION NETWORKS. PROCEDURAL ISSUES ARE BROKEN DOWN INTO THOSE INVOLVING PROTOCOL AND THOSE INVOLVING OPERATIONAL PROCEDURES. ISSUES OF PROTOCOL WHICH ARE EXAMINED INCLUDE 1) THE PROBLEM OF LANGUAGE AND INTERPRETATION, WHICH OFTEN CAUSES LONG DELAYS DURING TELECONFERENCES, 2) THE EXTENT OF THE POWER TO BE WIELDED BY THE TELECONFERENCE'S CHAIRMAN, 3) SIDE CONVERSATIONS AND 4) MEDIA COMBINATIONS. IN CONCLUSION, THE AUTHOR MAKES SEVERAL OBSERVATIONS AND SUGGESTIONS REGARDING TELECONFERENCE PROCEDURES, NOTING THAT WELL THOUGHT-OUT PROCEDURES ARE ESSENTIAL TO THE SUCCESS OF A TELECONFERENCE.

'BY MEANS OF THE NEWLY DEVELOPED, CHEAP HOME VIDEO TAPE RECORDERS, IT IS NOW POSSIBLE FOR THE HOSPITAL STAFF TO RECORD THESE TELEVISION PROGRAMS WHEN BROADCAST AND THEN REPLAY THEM AT WHATEVER HOUR AND AS MANY TIMES AS THEY DESIRE. IT ALSO ALLOWS THE NETWORK TO DUPLICATE THE PROGRAMS AND MAIL THEM TO HOSPITALS OUTSIDE THE RANGE OF THE PRESENT BROADCAST SYSTEM. THIS MEANS THAT THE PRACTITIONER MAY SEE AN EXCELLENT, UP-TO-DATE PROGRAM AT ANY TIME AND ALMOST ANY
MEANS THAT THE PRACTITIONER MAY SEE AN EXCELLENT, UP-TO-DATE PROGRAM AT ANY TIME AND ALMOST ANY PLACE.* CM

0512C *** TAMPAS, JOHN P. * SOULE, A. BRADLEY

EXPERIENCES WITH TWO-WAY TELEVISION IN A TEACHING HOSPITAL COMPLEX

JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 204, 11, P1173-5, JUNE 24, 1968

TELEVISION HAS BEEN DEVELOPED AND USED EXTENSIVELY AT THE UNIVERSITY OF VERMONT COLLEGE OF MEDICINE FOR CONSULTATION, PATIENT CARE, TEACHING, AND RESEARCH. PRESENT USES INCLUDE TELEVISION MONITORING OF FLUOROSCOPIC EXAMINATIONS, RADIOGRAPHS, ELECTROCARDIOGRAMS, MICROSCOPIC IMAGES, TEACHING CONFERENCES, OPERATIVE PROCEDURES, AND PATIENTS UNDERGOING RADIATION THERAPY. PROJECTED PLANS INCLUDE THE DEVELOPMENT OF A TWO-WAY AUDIOVISUAL TRANSMISSION BETWEEN THE MEDICAL CENTER AND PERIPHERAL COMMUNITY HOSPITALS FOR TEACHING AND CONSULTATION PURPOSES.* THE ARTICLE DISCUSSES THE HISTORY, TECHNICAL FACTORS, EARLY TYPES, CURRENT APPLICATIONS, PROJECTED USES, AND THE LIMITING FACTORS OF THESE COMMUNICATIONS APPLICATIONS. CM

0542C *** FREDETTE, ALBERT P.

TWO-WAY RADIO CONFERENCES, THE ALBANY MEDICAL COLLEGE PROJECT

AUDIOVISUAL INSTRUCTION 12, P11-2, MAY 1963

AN EXPERIMENT TO EXAMINE THE POTENTIAL EFFECTIVENESS OF TELELECTURES WAS CONDUCTED AT LACROSSE STATE COLLEGE, IN WISCONSIN, ON MAY 3, 1962. ONE HUNDRED PEOPLE, MAINLY UNDERGRADUATES IN PHYSICAL SCIENCE, ATTENDED A TELELECTURE ON THE NUCLEAR REACTOR GIVEN BY DR. MAX CARBON, LOCATED AT THE UNIVERSITY OF WISCONSIN MADISON CAMPUS. TWO PROJECTORS AND TWO SCREENS WERE USED AT THE RECEIVING SITE, IN CONJUNCTION WITH THOSE IN THE LECTURER'S OFFICE, SO THAT IMPORTANT VISUALS COULD REMAIN IN VIEW WHILE SECONDARY SLIDES WERE CHANGED. THE EXPERIMENT DEMONSTRATED THE NECESSITY FOR DETAILED PLANNING AND THE IMPORTANCE OF INTEGRATING VISUALS INTO THE LECTURE IN ORDER TO FOCUS AUDIENCE ATTENTION. FURTHERMORE, PARTICIPATION IN THE QUESTION-ANSWER SESSION PROVED VALUABLE IN THE ATTEMPT TO "INVOLVE THE AUDIENCE IN SOME MEANINGFUL WAY..." ALL THOSE WHO COMPLETED EVALUATION CARDS THOUGHT THE TELELECTURE AN EFFECTIVE EDUCATIONAL METHOD AND "66 PER CENT OF THE RESPONDENTS FELT THE TELELECTURE WAS "AS EFFECTIVE" AS A LECTURE "IN PERSON".* THE AUTHOR FEELS THAT THIS TECHNIQUE SHOULD NOT REPLACE PERSONAL ATTENDANCE WHERE POSSIBLE. HOWEVER, IT MAY PROVIDE SMALL COMMUNITIES WITH INEXPENSIVE ACCESS TO VALUABLE RESOURCES AND TO WIDELY ACCLAIMED PERSONS. WH
ON THE LINE

NEWSWEEK 59, P92+, MARCH 12, 1962

ON THE LINE

MISSOURI STEPHENS-COLLEGE MICHIGAN-UNIV HIGHER-ED POLITICAL-SCIENCE LEGAL-STUDIES COURTROOM-PROCEEDINGS CTV

THIS NEWS ARTICLE DESCRIBES TWO CURRENT USES OF TELECOMMUNICATIONS AS TEACHING TOOLS IN HIGHER EDUCATION. STEPHENS COLLEGE (MISSOURI) IS USING THE TELEPHONE TELELECTURE TECHNIQUE TO FACILITATE TWO-WAY INTERVIEWS WITH POLITICAL LEADERS FOR ITS STUDENTS. THE 30-MINUTE OPPORTUNITIES TO HEAR AND QUESTION POLITICAL NOTABILIES HAVE PROVIDED STEPHENS' STUDENTS WITH "THE EXCITEMENT OF STREET CORNER POLITICS ALONG WITH THE UNACTIVITY OF THE CLASSROOM." LAW STUDENTS AT THE UNIVERSITY OF MICHIGAN CAN VIEW ACTUAL COURTROOM PROCEEDINGS VIA CLOSED CIRCUIT TELEVISION. THIS SYSTEM IS ESPECIALLY USEFUL BECAUSE STUDENTS CAN DISCUSS CERTAIN POINTS AS THEY ARISE WITHOUT DISTURRING THE PROCEEDINGS. IF THE JUDGE WISHES TO CLEAR THE COURT, HE SIMPLY ORDERS IT AND INSTRUCTS THE BAILIFF TO SHUT OFF THE TV CAMERA. CM

WHAT'S COMING TOMORROW FROM TODAY'S TELEPHONES

U.S. NEWS AND WORLD REPORT 56, P60-4, MARCH 9, 1964

RUBIN, HAROLD

TELEPHONE NETWORK COURSES

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 43, P128-32+, MARCH 1964

MYERS, KENT C.

LEARNING BY TELEPHONE

CLEARING HOUSE 39, P475-8, APRIL 1965

VISUALS FOR TELELECTURE AND CAMPUS AUDIO NETWORKS

AUDIOVISUAL INSTRUCTION 10, P468-9, JUNE 1965

MISSOURI STEPHENS-COLLEGE MICHIGAN WESTERN-MICHIGAN-UNIV HIGHER-ED HISTORY-TELECONF VISUAL AIDS ELECTROWRITER HOME-STUDY

THIS ARTICLE REPORTS A MEETING AT WHICH CARL B. SNOW OF WESTERN MICHIGAN UNIVERSITY AND CHARLES F.
THIS ARTICLE REPORTS A MEETING AT WHICH CARL H. SNOW OF WESTERN MICHIGAN UNIVERSITY AND CHARLES F. MADDEN OF STEPHENS COLLEGE (MISSOURI) BRIEFLY RELATED THE ELECTRONIC RESOURCES AVAILABLE AT THEIR RESPECTIVE SCHOOLS. SNOW DESCRIBED WESTERN MICHIGAN'S DORMITORIES, WHICH ARE EQUIPPED WITH MULTICHANNEL AUDIO CLOSED CIRCUITS TO AID STUDENTS IN THEIR STUDIES. MADDEN PRESENTED A BRIEF HISTORY OF TELLECTURES, FOCUSING ON VISUAL AIDS, ESPECIALLY THE ELECTROWRITER. HE CONCLUDED BY DESCRIBING A 16 STATION HOOKUP TO BE IMPLEMENTED IN THE AUTUMN OF 1965 UNDER THE COORDINATION OF STEPHENS COLLEGE. FK

Wisconsin telephone hook-up, statewide telephone conferences

American School Board Journal 155, p20, March 1968
// Wisconsin WASB education-administration extension-UW roll-call evaluation-subjective

In December of 1967 Wisconsin school board members and administrators conferred via a telephone link-up between 12 locations throughout the state, arranged by the Wisconsin Association of School Boards (WASB). This conference dealt with salary negotiations and legislative developments affecting public education. Using telephone facilities provided by University Extension of the University of Wisconsin, the conference consisted of reports from participants followed by a roll call question and answer period. Robert Ziemer, WASB President, called the conference 'extremely successful.' Reports received by the WASB termed the conference 'extremely valuable,' and participants unanimously favored having more such conferences in the future. FK
IN NOVEMBER 1965, THE UNIVERSITY OF WISCONSIN MEDICAL CENTER INITIATED A TELELECTURE PILOT PROJECT DESIGNED TO BRING POSTGRADUATE INSTRUCTION TO PHYSICIANS THROUGHOUT WISCONSIN. CONDUCTED OVER LEASED TELEPHONE LINES, PROGRAMS CONSISTED OF A 30-MINUTE TAPED LECTURE, USUALLY ACCOMPANYED BY VISUAL AIDS, FOLLOWED BY A LIVE QUESTION AND ANSWER SESSION. PROGRAMS TRANSMITTED OVER THE NETWORK INCLUDED 1) GENERAL MEDICAL CONFERENCES, WHICH RANDOMLY COVERED MANY SUBJECTS 2) A PEDIATRIC JOURNAL CLUB 3) AN EXPERIMENTAL COURSE IN ELECTROCARDIOGRAPHY AND 4) PROGRAMS FOR ALLIED HEALTH PERSONNEL. IN 1966-67 THE NETWORK EXPANDED GREATLY, AND SOME STATIONS WERE ADDED WHICH RECEIVED PROGRAMS BY RADIO RATHER THAN TELEPHONE. SEVERAL EXPERIMENTS WERE ATTEMPTED, INCLUDING ONE IN WHICH A SERIES OF VETERINARY LECTURES ORIGINATED IN EAST LANSING, MICHIGAN. IN AN ATTEMPT TO ACHIEVE EVALUATION, PRE-TESTS, POST-TESTS AND SIX-MONTH POST-TESTS WERE GIVEN TO THOSE PHYSICIANS TAKING THE ELECTROCARDIOGRAPHY COURSE. RESULTS COMPARED FAVORABLY WITH THOSE OF MEDICAL STUDENTS TAKING THE SAME COURSE IN A CLASSROOM. FK
REVIEWING LESSONS FOR ABSENTEE STUDENTS

SCHOOL MANAGEMENT 11,2, P15, FEB 1967

THE ALVORD SCHOOL DISTRICT IN RIVERSIDE, CALIFORNIA HAS PROPOSED A DIAL-ACCESS SYSTEM WHICH WOULD ALLOW STUDENTS WHO ARE ABSENT FROM SCHOOL TO RECEIVE HOMEWORK ASSIGNMENTS AND BRIEF LESSON SUMMARIES MERELY BY DIALING A TELEPHONE NUMBER. HAVING MADE SOME PROGRESS WITH THIS PROJECT, ALVORD HOPES TO PLACE A FEW SELECTED HIGH SCHOOL COURSES ON DIAL-ACCESS TAPE WITH FEDERAL FUNDS SUPPLIED UNDER ESEA TITLE III.

THE TECHNIQUE OF TELE-LECTURE

NEW YORK STATE EDUCATION 52, P35, MAY 1965

THE AUTHOR DESCRIBES THE PLANNING AND PRESENTATION OF A TELE-LECTURE DELIVERED BY DR. WILLIAM HAGENY OF SUC NEW PALTZ TO HIS SEMINAR OF INTERNS IN EDUCATIONAL ADMINISTRATION AT SUC ALBANY. THE SIMPLE AND INEXPENSIVE EQUIPMENT FOR THE LECTURE INCLUDED A MICROPHONE AND RECEIVER ATTACHED BY THE TELEPHONE COMPANY TO THE TELEPHONE LINE IN THE ALBANY SEMINAR ROOM. THE LECTURER USED HIS UNAUGMENTED OFFICE PHONE. BOTH HAGENY AND PARTICIPATING INTERNS WERE GIVEN INFORMATION ABOUT EACH OTHER PRIOR TO THE TELELECTURE. THE ACTUAL SEMINAR INCLUDED A LECTURE BY HAGENY AND A DISCUSSION PERIOD. STUDENT RESPONSE WAS ENTHUSIASTICALLY FAVORABLE.

ELECTRONIC WONDERLAND, HARBINGER OF THE FUTURE

NEW YORK STATE EDUCATION 55, P14-54, APRIL 1968

IN THE FALL OF 1968, A TEAM OF FACULTY MEMBERS OF THE STATE UNIVERSITY COLLEGE AT NEW PALTZ, NEW YORK EXPERIMENTED WITH AN INSTRUCTIONAL SYSTEM THAT UTILIZED FOUR DISTINCT ELECTRONIC TECHNIQUES, TELEVISION, TELE-LECTURE, TALK-BACK AND TELEWRITING. THE FIRST COURSE TO BE OFFERED, EDUCATION LAW, WAS TRANSMITTED FROM NEW PALTZ TO TWO REMOTE CAMPUS CENTERS. A TYPICAL CLASS MEETING BEGAN WITH A HALF-HOUR VIDIOGRAPHED PRESENTATION ON A SPECIFIC SUBJECT. FOR MANY REASONS, TELEVISION, RATHER THAN FILM, WAS UTILIZED. FOLLOWING THIS PRESENTATION, AN HOUR-LONG TELE-LECTURE EXPANDED UPON THE CHOSEN SUBJECT, WHILE A VICTOR ELECTROWRITER WAS USED AS A VISUAL AID. A 'TALK-BACK' DISCUSSION FOLLOWED, WHICH COULD BE HEARD AT BOTH CAMPUSES BECAUSE OF A CONFERENCE-BRIDGING NETWORK DESIGNED BY THE NEW YORK TELEPHONE COMPANY. RESULTS BASED ON
OF A CONFERENCE-BRIDGING NETWORK DESIGNED BY THE NEW YORK TELEPHONE COMPANY. RESULTS BASED ON

FINAL EXAMS AND TERM PAPERS INDICATE THAT COURSE PERFORMANCE WAS ABOUT THE SAME AS WHEN THE
COURSE WAS GIVEN FACE-TO-FACE. STUDENTS' REACTION WAS ALSO GENERALLY FAVORABLE, LARGELY
BECAUSE OF TELELECTURE'S TIME-SAVING CHARACTERISTICS. FK

0566C  *** MOORE, R. WAYNE * CURETON, JAN W.

HOMEBOUND-LESS

AUDIOVISUAL INSTRUCTION 10, P708-9, NOV 1965

MANY INNOVATIVE TECHNIQUES, INCLUDING A HOME-TO-SCHOOL TELEPHONE LINKUP, HAVE BEEN UTILIZED BY MRS.
FRANCES STRAWN OF WATERLOO, IOWA, AN ITINERANT TEACHER OF THE HOMEBOUND. USED FOR TEACHING
BOTH ELEMENTARY AND HIGH SCHOOL STUDENTS, HOMEBOUND EDUCATION IS AIMED AT HELPING STUDENTS
CONFIDENT TO HOSPITALS OR THEIR HOMES KEEP UP WITH THEIR CLASSES IN THE BASIC TOOLS AREAS. TO
SUPPLEMENT THE TELEPHONE LINKUP, MRS. STRAWN VISITS HOMEBOUND STUDENTS ABOUT THREE TIMES A
WEEK, TAKING WITH HER VISUAL AIDS AND OTHER INSTRUCTIONAL MATERIALS. OCCASIONALLY, INDIVIDUAL
AND GROUP FIELD TRIPS ARE PLANNED. PARENTAL COOPERATION IS VITAL. IN HER HOMEBOUND EDUCATION
PROGRAM, MRS. STRAWN SEeks TO FOSTER SOCIAL MATURITY AND GOOD USE OF LEISURE TIME AS WELL AS
INTELLIGENT DEVELOPMENT. FK

0568C  *** SEYMOUR, MARJORIE H.

AUDIOVISUALS ENRICH ISOLATED SCHOOLS

INSTRUCTOR 78,1, P154, AUGUST 1968

BECAUSE OF THE GREAT SIZE OF CARBON COUNTY, WYOMING, EDUCATORS THERE FELT IT MOST PRACTICAL TO
ESTABLISH A LEARNING OR CULTURAL CENTER TO SERVE THE APPROXIMATELY 4,100 SCHOOL CHILDREN IN THE
7,965 SQUARE MILE AREA. THIS CARBON COUNTY COORDINATED INSTRUCTIONAL CENTER (CCCIC) NOT ONLY
ACQUIRED AUDIO-visual EQUIPMENT AND INSTRUCTIONAL MATERIALS FOR LOAN TO CARBON COUNTY SCHOOLS,
BUT IT ALSO OWNS AND COORDINATES THE USE OF A VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB).
THE VERB SYSTEM INCLUDES OVERHEAD PROJECTORS WHICH ALLOW REMOTE LECTURERS TO WRITE AND DRAW IN
CONJUNCTION WITH THEIR TELEPHONE LECTURE. BOTH THE GRAPHICS (VERB) AND THE AUDIO ARE
TRANSMITTED VIA STANDARD TELEPHONE LINES. THE CCCIC COURSE ENRICHMENT PROGRAM WILL ATTEMPT TO
BRING PRESENTATIONS BY NOTED AUTHORITIES TO CARBON COUNTY STUDENTS. THE COST OF SUCH A
ONE-HOUR LECTURE FROM A U.S. SENATOR ON THE EAST COAST WAS $56 DOLLARS, OR ONE ONE-HUNDREDTH OF
THE COST OF A CLOSED CIRCUIT TV BROADCAST OF EQUAL LENGTH. CM

THE AUTHOFR, A KINDERGARTEN TEACHER, SUGGESTS THAT 'THE TELEPHONE IS AN IDEAL DEVICE ON WHICH TO BUILD LEARNING EXPERIENCES IN THE CLASSROOM, BECAUSE IT IS A NORMAL AND FAMILIAR PART OF THE CHILD'S HOME LIFE. PLAY PHONES HELP HIM TO ENLARGE HIS VOCABULARY, USE MORE COMPLEX LANGUAGE PATTERNS, AND ACQUIRE CONCEPTS OF SOCIAL BEHAVIOR. ROLE PLAYING BECOMES SIGNIFICANT AND LESS SELFCONSCIOUS.' MULTIMEDIA SUPPLEMENTS, INCLUDING BOOKS, FILMSTRIPS, ALBUMS AND POEMS ABOUT TELEPHONES, HAVE BEEN USED BY THIS TEACHER TO BUILD APPRECIATION FOR THE TELEPHONE.
WEST-UNION TELELECTURES HELP SIX DISTRICTS CONFERENCE
NATION'S SCHOOLS 78, 4, P54, OCT 1966

Under an ESEA Title I Grant, 1200 teachers serving in six sparsely populated county school districts in Northeast Iowa are receiving in-service training via telephone and Electrowriter. The audio is a simple telephone connection. Supplementary notes, drawings and transparencies are transmitted on Electrowriters which function as overhead projectors. Supplementary workshops and meetings are held to round out the program. Typical cost for a one and one-half-hour program is $300 dollars (excluding equipment costs). CM

MULTIMEDIA FIELDTRIP REPLACEMENTS
AUDIOVISUAL INSTRUCTION 12, 7, P714-5, SEPT 1967

This article describes multimedia telelectures used by the faculty of the College of Agriculture, University of Illinois, in lieu of typical field trips. Such multimedia replacements have many advantages over typical field trips because of the many problems inherent in the 'real thing.' In planning a multimedia field trip, a professor visits a selected resource where color slides and/or motion pictures are made. These pictures are shown on a remote slide projector and a motion picture projector, while a discussion is held over conference amplified telephone equipment between students and an expert at the site of the resource. Often, an overhead projector and printed handouts are also utilized. FK

THE COMPUTER, TELEVISION AND TELEPHONE AS EDUCATIONAL TOOLS
AUDIOVISUAL INSTRUCTION 13, P1088-90, DEC 1968
XEROX OFFERS FAXSIMILES BY PHONE

PRINTER'S INK 292, P52, MAY 27, 1966

// TELECOPIER XEROX-MAGNAFAX-TELECOPIER MAGNAVUX-CO LDX COAXIAL-CABLE

THE XEROX MAGNAFAX TELECOPIER, INTRODUCED AND DEMONSTRATED SIMULTANEOUSLY IN NEW YORK AND LOS ANGELES, IS A DESK-TOP COPIER WHICH CONVERTS LIGHT SIGNALS INTO SOUNDS WHICH ARE PICKED UP BY A TELEPHONE RECEIVER, TRANSMITTED, AND RECONVERTED INTO LIGHT SIGNALS AT THE OTHER END. TRANSMISSION OF AN 8 AND ONE-HALF INCH BY 11 INCH PAGE TAKES ABOUT SIX MINUTES. A HALF-PAGE WOULD TAKE THREE MINUTES AND A SIGNATURE ONLY 30 SECONDS. THE TELECOPIER IS 11 BY 18 BY 15 INCHES, WEIGHTS 46 POUNDS AND IS POWERED BY A STANDARD 110-VOLT OUTLET. TELECOPIER DIFFERS FROM LONG-DISTANCE-XEROX (LDX) IN THAT THE FORMER TRANSMITS OVER A TELEPHONE LINES, WHILE LDX TRANSMITS OVER COAXIAL CABLE.

*** BEILIS, MICHEL

TELELECTURE, A NEW LOOK

BELL TELEPHONE MAGAZINE 43,2, P40-5, SUMMER 1964

THE MEDICAL SCHOOL OF THE AIR

MEDICAL JOURNAL OF AUSTRALIA 1, P869-71, JUNE 5, 1965

SYDNEY WOLLONGONG AUSTRALIA NEW-SOUTH-WALES-UNIV SYDNEY-UNIV POSTGRADUATE-ED MEDICAL-ED INTERUNIVERSITY-COOPERATION RADIO-UNIVERSITY LAND-LINE-SYSTEM MAILED-MATERIALS TAPE-RECORDING-SERVICE

If there is a red alert or actual enemy attack, the military command posts must immediately contact many armed services operational centers and issue orders covering retaliatory and defense action. These instructions could normally be issued over radio facilities. However, since these channels might be either monitored or jammed by the enemy, a telephone automatic conferencing arrangement now provides an alternate means of transmitting orders. In addition, this arrangement permits two-way transmission between the command post and the operational centers without revealing the positions. The system can connect the conference originator to all conference stations in a minimum of time, provide maximum reliability in case of trouble within the switching system, and function during and after an enemy attack. The author presents a technical description of this conferencing system and concludes that, the automatic conferencing arrangement might be adapted for use in other areas where information from the originating point is transmitted simultaneously to a number of terminating points such as the data transmission area.
EDUCATION AT TELEPHONE

BELL LABORATORY RECORD 42,1, P19, JAN 1964

DESCRIPTION-TELELECTURE OMAHA-UNIV HIGHER-ED TEACHER-SHARING VISUAL-AIDS

THE APPLICATION OF TELEPHONE EQUIPMENT TO EDUCATIONAL NEEDS IS CAUSING "...A QUIET REVOLUTION THAT IS CHANGING TRADITIONAL TEACHING CONCEPTS." IN USING THE TELELECTURE TECHNIQUE A PROFESSOR'S LECTURE IS RELAYED OVER TELEPHONE CIRCUITS TO OTHER COLLEGES, WHERE IT IS AMPLIFIED AND FED THROUGH SPEAKERS TO THE STUDENTS. VISUAL AIDS MAY BE USED IN CONJUNCTION WITH THE LECTURE AND MICROPHONES ALLOW DISTANT LISTENERS TO ASK QUESTIONS. THE UNIVERSITY OF OMAHA HAS CONDUCTED A NUMBER OF SUCCESSFUL EXPERIMENTAL TELELECTURES AND A CONFERENCE DESIGNED "...TO ACQUAINT BOTH EDUCATORS AND TELEPHONE COMPANY OFFICIALS WITH THE POSSIBILITIES OF TELELECTURE." MANY EDUCATORS HAVE ACCLAIMED THIS NEW LECTURING TECHNIQUE. IT MAY RELIEVE TEACHER SHORTAGES, AS IT CAN PROVIDE STUDENTS, ESPECIALLY THOSE AT SMALL COLLEGES, WITH INSTRUCTION BY THE FINEST TEACHERS AVAILABLE. INDEED, IT PROVES "...THAT THE USES AND BENEFITS OF TELEPHONE SERVICE ARE AS VARIED AS MAN'S IMAGINATION." WM

HOYLER, ROBERT G.

TIME DIVISION CONFERENCING OF FOUR-WIRE TELEPHONE CIRCUITS

IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 15, P120-3, FEB 1967

DESCRIPTION-TELELECTURE OMAHA-UNIV HIGHER-ED TEACHER-SHARING VISUAL-AIDS

\[...\]
A MULTIPORT TELEPHONE CONFERENCE BRIDGE

IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 16,1, P168-72, FEB 1968

Conference bridges allow a number of remotely located telephone subscribers to hold a conference. A new bridge using solid-state circuitry and a plug-in module-type equipment arrangement has been unsigned. The number of participants in a conference call varies. The capability and flexibility required have been achieved by designing a 30-port bridge that can be subdivided into five separate 6-port groups. These groups can then be combined to service large or small groups of subscribers. When large numbers of two-wire subscribers are connected together, the sum of the returning echoes is substantial. In the new bridge, each port is equipped with a voice-activated gain switch that keeps a fixed amount of loss in each of the two-wire loops.

A model of the multiport bridge has been in service on a trial basis for eight months. The ease of operation and improved transmission characteristics were noted and commented upon by operating personnel almost immediately. Author's abstract with note added by LC.

GENERAL TRANSMISSION CONSIDERATIONS IN TELEPHONE CONFERENCE SYSTEMS

IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 16,1, P163-7, FEB 1968

A general discussion of the transmission problems involved in telephone conference systems due to noise, echo, and singing is presented. The application of voice-switched loss seems to be the best way to alleviate these difficulties. New problems must now be considered due to weak talkers and occasional simultaneous talking. Two types of conference connections are discussed. First, when three or more telephones are connected together, and second, when groups of people at two or more locations talk back and forth using microphones and loudspeakers. Recent work discussed here provides substantial transmission improvement for this type of service. Author's abstract.

POSTGRADUATE MEDICAL EDUCATION IN MAINE - A NEW EXPERIMENT UTILIZING TWO-WAY RADIO AND TELEVISION

JOURNAL OF THE MAINE MEDICAL ASSOCIATION 55, P172-3, SEPT 1964

GRADUATE TEACHING BY TELEPHONE AND RADIO
The Early Bird Communications Satellite was used on May 31, 1965 to provide a television link between French students of the English Language in the Lycee Henri IV in Paris and American, French Language students in West Bend High School, West Bend, Wisconsin. The American students spoke in French and the French students spoke English. The authors describe the arrangements made with WHA-TV and RadioDiffusion-Television Francaise for the television production, with the Wisconsin Telephone Company and COMSAT for the microwave connection and ground station use and with AT&T for the free use of the satellite. The link cost approximately 4,000 dollars for the land lines between Wisconsin and the satellite ground station in Maine. Educationally, the experimental link provided the excitement of participation in a significant experiment, the opportunity to speak a formally learned, second language with native speakers and spontaneous live exchange of conversation across cultures. The students became conscious of certain cultural differences, while coming to appreciate shared tastes and interests. Indeed, the exchange provided considerable motivation for the continuation of language study. Dreyfus and Loofboro urge the government to take immediate advantage of this technological tool for its social and educational uses. We might generally say that this would seem to be a sure-fire method of increasing international understanding. In this it would resemble the American Field Service and other exchange programs now in existence, with the very obvious advantage of directly and personally involving more persons than any of the present programs with a similar goal could hope to do. Wh
THE INDIVIDUALIZATION OF THE IN-SERVICE PROGRAM FOR PROFESSIONAL STAFF

ESEA TITLE III TELE-WRITER PROJECT. STEVENS POINT, UNIVERSITY OF WISCONSIN. 6P


NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT

TEACHING BY TELEPHONE, AN EXPERIMENT IN LANGUAGE TEACHING

INTERNATIONAL REVIEW OF APPLIED LINGUISTICS IN LANGUAGE TEACHING 5,2/3, p123-39, JULY 1967. ERIC ED 013 014

SWEDEN TEACHER-ED ENGLISH-LANGUAGE SELF-INSTRUCTION CORRESPONDENCE-ED ARTICULATED-INSTRUCTION PROGRAMMED-INSTRUCTION EVALUATION

TELEPHONIC SEMINAR IN FOREIGN-RELATIONS
COLUMBIA, MISSOURI, SCHOOL DISTRICT PROJECT NUMBER DPCS-68-5728. JSP. PAGE ES 002 130

FOREIGN POLICY/CURRENT EVENTS SEMINARS WILL BE ARRANGED FOR HIGH SCHOOL STUDENTS THROUGH AN AMPLIFIED TELEPHONE HOOKUP TO THE DEPARTMENT OF STATE IN WASHINGTON, D.C. A SERIES OF FIVE MONTHLY SEMINARS WILL BE PLANNED. IN ADDITION, A LIVE KEYNOTE ADDRESS AND A LIVE RESUME CONCLUSION WILL BE OFFERED. THE SEMINARS WILL BE SCHEDULED IN THE EVENING IN THE HIGH SCHOOL AUDITORIUMS TO ENCOURAGE COMMUNITY ATTENDANCE. SPEAKERS WILL TALK FROM 20 TO 30 MINUTES AND WILL THEN ANSWER QUESTIONS DIRECTED FROM THE AUDIENCE. A PANORAMA OF APPROPRIATE VISUAL AIDS WILL BE ON STAGE WHILE THE AMPLIFIED LONG-DISTANCE CALL IS BEING PRESENTED. SLIDES OF THE AREA UNDER DISCUSSION WILL BE FURNISHED IN ADVANCE BY THE SPEAKER. A CORE GROUP OF 150 HIGH SCHOOL STUDENTS WILL BE CONSIDERED ACTIVE PARTICIPANTS. AS PART OF THEIR INDEPENDENT STUDY PROGRAM, CORE STUDENTS WILL CONDUCT EXTENSIVE PRESEMINAR RESEARCH ON THE AREA TO BE DISCUSSED. IN ADDITION, AN OBSERVER CORPS OF 350 STUDENTS AND ADULTS WILL PARTICIPATE IN THE SEMINARS. A SOCIAL STUDIES AND POLITICAL SCIENCE PROFESSOR FROM A NEARBY UNIVERSITY WILL DIRECT INDIVIDUALIZED STUDY, COORDINATE THE TOTAL PROGRAM, AND DIRECT STUDENT FOCUS ON THE SPEAKER'S REMARKS IN FOLLOWUP SESSIONS. APPROXIMATELY 503 STUDENTS, GRADES 7-12, AND ADULTS WILL BE SERVED.
INDIVIDUALIZATION OF THE INSERVICE PROGRAM FOR PROFESSIONAL STAFF

WAUSAU, WISCONSIN, JOINT SCHOOL DISTRICT I PROJECT NUMBER DPSC-67-3560. 70P. PACE ES 001 489

WAUSAU WISCONSIN TEACHER-ED EDUCATION-ADMINISTRATION ELECTROWRITER

INSERVICE PROGRAM FOR TEACHERS AND ADMINISTRATORS WILL BE INDIVIDUALIZED ON A SMALL-GROUP BASIS

THROUGH THE USE OF TELECOURSES IN A THREE-COUNTY AREA. PROGRAMS WILL BE IMPLEMENTED THROUGH

THE USE OF AMPLIFIED TELEPHONE RECEIVERS AND REMOTE BLACKBOARD TELEWRITERS IN A CENTRAL

CONFERENCE AREA AT EACH SCHOOL LOCATION. SPECIALISTS OR PROFESSORS IN THE AREAS OF TEACHER

NEEDS WILL TRANSMIT THEIR PRESENTATIONS FROM A CENTRAL LOCATION AT A NEIGHBORING UNIVERSITY.

TRAINING SESSIONS WILL BE SCHEDULED DURING THE SCHOOL DAY. SUBJECT AREAS INCLUDE 1) AN

ADMINISTRATION DEVELOPMENT PROGRAM COVERING ORIENTATION AND INTERNSHIPS 2) STUDIES OF

CURRICULAR POLICIES AND PROCEDURES FOR ANALYSIS, DESIGN, AND DEVELOPMENT OF CURRICULUM AND 3)

A MODEL FOR INTRODUCTION OF CHANGE AND INSERVICE EDUCATION AS A PART OF THE PROFESSIONAL DAY.

CHANGE WILL BE IMPLEMENTED THROUGH A NEW DESIGN FOR STAFF UTILIZATION INCLUDING TEACHING TEAMS

FOR EACH TWO GRADE LEVELS IN THE ELEMENTARY SYSTEM. A TEACHER FROM EACH TEAM WILL SERVE AS A

LIAISON WITH THE ADMINISTRATIVE STAFF. TEACHER AIDES OR PARAPROFESSIONALS WILL BE INCLUDED TO

ALLOW THE FLEXIBILITY NECESSARY FOR TEACHERS TO PARTICIPATE IN THE INSERVICE PROGRAM.

A COMMITTEE OF EIGHT TEACHERS, TWO PRINCIPALS AND A MEMBER OF THE CENTRAL STAFF FROM EACH SCHOOL DISTRICT

WILL DETERMINE TRAINING NEEDS FOR THE PROGRAM AND ACT AS A LIAISON FOR INTERDISTRICT

COORDINATION. APPROXIMATELY 849 STAFF MEMBERS WILL BE INVOLVED IN THE PROGRAM AND 18,021

STUDENTS WILL BE SERVED. (MC). PACE

AULT, LESLIE H.

A SITUATION TEST OF TRAINING EFFECTIVENESS

NEW YORK, XEROX CORPORATION, 1968. 10P. ERIC ED 019 625

VOCATIONAL-ED ADULT-ED MULTIMEDIA-INSTRUCTION EVALUATION

AS PART OF THE EVALUATION OF A MULTIMEDIA COURSE FOR MANAGERIAL PERSONNEL ON PROBLEM-SOLVING

DISCUSSIONS, A SPECIAL CASE WAS DEVELOPED TO TEST TRAINEES' APPLICATION OF THEIR SKILLS IN A

NEW SETTING. THE CASE PLACED EACH SUBJECT IN THE ROLE OF A PLANT MANAGER WITH A PROBLEM TO

SOLVE, WITH TWO SUBORDINATES AVAILABLE FOR CONSULTATION. THE ROLES OF THE SUBORDINATES WERE

CAREFULLY STRUCTURED, AND THE PEOPLE PLAYING THESE ROLES WERE NOT INFORMED AS TO THE NATURE OF

THE EXPERIMENT. A TOTAL OF 30 SALES MANAGERS FROM TWO COMPANIES TOOK PART. FOURTEEN HAD BEEN

TRAINED THREE MONTHS PREVIOUSLY, AND 16 WERE CONTROLS. EACH SUBJECT WAS GIVEN BACKGROUND

INFORMATION AND THEN PLAYED THE CASE OVER THE TELEPHONE AT AN APPOINTED HOUR. THE SOLUTIONS TO

THE PROBLEM WERE GRADED ON THE BASIS OF A PREESTABLISHED SCALE. THE RESULTS SHOWED THAT-

MANAGERS WITH TRAINING REACHED BETTER SOLUTIONS AND REACHED THEM FASTER THAN MANAGERS WITHOUT

TRAINING. THE USE OF THE TELEPHONE, DICTATED BY THE GEOGRAPHICAL DISPERSION OF THE SUBJECTS,

PROVED FEASIBLE, THUS SUGGESTING APPLICATIONS IN TRAINING AND RESEARCH, PARTICULARLY WHERE

VERBAL INTERACTION IS BEING STUDIED. (AUTHOR/RT). ERIC
HEAD-START TELLECTURE PROJECT. A FEASIBILITY STUDY TO ASSESS THE POTENTIAL OF TELLECTURE AS A MEDIUM FOR IN-SERVICE TEACHER TRAINING IN APPALACHIA

CHARLESTON, WEST VIRGINIA, EDUCATION INCORPORATED, 1967. 39P. ERIC ED 017 163

THIS DOCUMENT DESCRIBES THE PROCEDURES INVOLVED IN A FEASIBILITY STUDY FOR TELLECTURE IN-SERVICE TEACHER TRAINING IN APPALACHIA. PROCEDURES ARE DISCUSSED IN SIX SECTIONS 1) PROJECT PLANNING BASED ON A SURVEY OF THE LITERATURE CONCERNING TELLECTURES 2) SELECTION OF PARTICIPANTS 3) SELECTION OF TRAINING MATERIALS 4) PLANNING AND IMPLEMENTING A MATERIALS WORKSHOP 5) PLANNING AND IMPLEMENTING THE TELLECTURE CONFERENCE SERIES 6) EVALUATION. A FINAL SECTION GIVES CONCLUSIONS AND RECOMMENDATIONS. A BIBLIOGRAPHY ON TELLECTURES IS INCLUDED. (LM). ERIC 4016C

PROJECT EAR, EDUCATIONAL AMATEUR RADIO

OCTOBER 1966. MIMEO. 19P

SPEAKERPHONE AMATEUR RADIO Transmission was used experimentally during the 1964-65 school year to link Harrison Avenue Elementary School in Harrison, New York with a rural school in Uyumbicho, Ecuador. The success of this project led to an expansion in the school's use of radio during the following two years. Pupils interviewed an outstanding children's writer, established contacts with children on Indian reservations and communicated with weather stations around the world. While a teacher discussed her study on Africa with teachers working on that continent, amateur radio permits learners to tap primary resources in moments. Material discussed in class can be instantly verified and thus takes on an immediate reality. A child can compare his particular situation with those of children in other cultures. He learns effective communication skills in practice and often he is motivated to carry out research. Klugman stresses the necessity of obtaining third party traffic waivers and calls for the establishment of an international education network. He believes that speakerphone amateur radio transmission can provide a major educational resource. "The voices of the world are at the doorstep of every classroom..." WH

FACSIMILE TRANSMISSION IN LIBRARIES, A STATE-OF-THE-ART SURVEY

WASHINGTON, LIBRARY OF CONGRESS. INFORMATION SYSTEMS OFFICE, 1967. 26P. ERIC ED 016 492

FIVE SYSTEMS, ALL OF WHICH HAVE INVESTIGATED OR ARE INVESTIGATING THE USES OF FACSIMILE EQUIPMENT AS APPLIED TO LIBRARIES, ARE SURVEYED. THE EQUIPMENT OF EACH PROJECT, INCLUDING NECESSARY COMMUNICATION LINKS, IS DESCRIBED, AS WELL AS THE RESULTS OF THOSE EXPERIMENTS NOW COMPLETED. IF TELFACSIMILE IS TO BE USEFUL, A NEED FOR A CHANGE IN SOME INTERLIBRARY LOAN PROCEDURES IS INDICATED. OTHER CONCLUSIONS OF THE STUDY ARE 1) THAT FACSIMILE TRANSMISSION IS TECHNICALLY AND ECONOMICALLY FEASIBLE NOW FOR MANY LIBRARY SYSTEMS, EVEN THOUGH BOUND VOLUMES STILL CANNOT BE HANDLED BY PRESENT EQUIPMENT, AND 2) THAT CURRENT DEVELOPMENTS AND PLANNING BY MANUFACTURERS WILL MAKE FACSIMILE TRANSMISSION EVEN MORE SATISFACTORY IN THE FUTURE. AN EXTENSIVE BIBLIOGRAPHY OF 56 ITEMS ABOUT FACSIMILE TRANSMISSION IS GIVEN. (CM). ERIC
4019A ***

FINAL REPORT OF TWO INTER-INSTITUTIONAL PROGRAMS UTILIZING AMPLIFIED TELEPHONE COMMUNICATION

COLUMBIA, MISSOURI, STEPHENS COLLEGE, 1966. 26P. ERIC ED 012 621

// COLUMBIA MISSOURI STEPHENS-COLLEGE HIGHER-ED AMERICAN-LITERATURE MATHEMATICS EVALUATION-SUBJECTIVE ELECTROWRITER

STEPHENS COLLEGE USED SEVERAL NEW INSTRUCTIONAL DEVICES IN INTRODUCING TWO INTERINSTITUTIONAL COURSES. THE UNDERGRADUATE COURSE, "AMERICAN LIFE AS SEEN BY CONTEMPORARY WRITERS," SUPPLEMENTED DISCUSSION SESSIONS WITH POETRY READINGS ON AUDIO TAPES AND LECTURES VIA AMPLIFIED, LIVE TELEPHONE COMMUNICATION. THE LATTER DEVICE ALSO MADE POSSIBLE CONVERSATION BETWEEN PROMINENT LITERARY FIGURES AND STUDENTS AT ALL THE PARTICIPATING COLLEGES. STUDENTS EVALUATING THE GENERALLY VERY SUCCESSFUL COURSE EXPRESSED A DESIRE FOR MORE DEPTH AND LESS BREADTH IN INSTRUCTIONAL APPROACH. THE COURSE, "NEW APPROACHES TO THE TEACHING OF MATHEMATICS," EMPLOYED THE ELECTROWRITER, AN INSTRUMENT THAT TRANSMITS WRITTEN IMAGES OVER TELEPHONE CABLES. THE COURSE WAS SUCCESSFUL, BUT THE ELECTROWRITER PRESENTED OCCASIONAL TECHNICAL PROBLEMS. SOME STUDENTS EXPRESSED A DESIRE FOR MORE UNITY IN THE COURSE MATERIAL. (AD). ERIC

4020A *** JOLLY, JOAN MADDEN, CHARLES F.

AMPLIFIED TELEPHONE AS A TEACHING MEDIUM

COLUMBIA, MISSOURI, STEPHENS COLLEGE REPORT NUMBER SC-EDUC-REP-1, MARCH 1965. 95P. ERIC ED 012 620

// MISSOURI STEPHENS-COLLEGE HIGHER-ED COURSE-ENRICHMENT INTERUNIVERSITY-COOPERATION CURRENT-EVENTS CONTEMPORARY-LITERATURE TEACHER-ED

A GRANT TOTALING 50,400 DOLLARS FROM THE FUND FOR THE ADVANCEMENT OF EDUCATION ENABLED STEPHENS COLLEGE TO INITIATE AN EXPERIMENTAL EDUCATIONAL PROGRAM BY WHICH AMPLIFIED TELEPHONE COMMUNICATION PRODUCED HIGH-QUALITY INSTRUCTION TO GROUPS OF SMALL LIBERAL ARTS COLLEGES. A "MASTER TEACHER" ORGANIZED AND PRESENTED THE BASIC MATERIALS OF THE COURSE. PERSONS OF NATIONAL AND INTERNATIONAL REPUTATION SPOKE TO THE CLASSES VIA TELEPHONE CONFERENCE NETWORKS ON SUBJECTS RELEVANT TO THE COURSE WORK. A LOCAL COORDINATOR AND TECHNICAL DIRECTOR ON EACH CAMPUS WORKED ON THE PROJECT WITH THE COORDINATOR AT STEPHENS. A TEACHER AT EACH COLLEGE OR UNIVERSITY WAS PRESENT IN CLASS DURING THE LECTURES. ONE COURSE FOR FACULTY MEMBERS (A SEMINAR IN SCIENCE) AND TWO COURSES FOR STUDENTS (A COURSE IN CONTEMPORARY SOCIAL ISSUES AND A COURSE IN CONTEMPORARY LITERATURE) WERE ALL SUCCESSFUL IN SPITE OF SOME TECHNICAL PROBLEMS. (AD). ERIC
DEVELOPMENT OF A STANDARDIZED TELEPHONE INTERVIEW FOR THE MEASUREMENT OF LANGUAGE CHANGES IN YOUNG CHILDREN

NEW YORK, NEW YORK UNIVERSITY. INSTITUTE FOR DEVELOPMENTAL STUDIES, 1968. 42P. ERIC ED 022 758

NEW YORK, NEW YORK UNIVERSITY. INSTITUTE FOR DEVELOPMENTAL STUDIES, 1968. 42P. ERIC ED 022 758

// EVALUATION-CONTROL-GROUP

TELEPHONE INTERVIEWS DESIGNED TO ELICIT OPEN-ENDED RESPONSES FROM DISADVANTAGED KINDERGARTEN CHILDREN WERE TAPED, ANALYZED, AND SCORED TO TEST THE RELIABILITY OF THIS INTERVIEW TECHNIQUE IN OBTAINING REPRESENTATIVE SPEECH SAMPLES. TO DETERMINE THE EFFECT OF FAMILIARITY WITH TELEPHONES, ONE GROUP OF 12 CHILDREN WAS PROVIDED WITH TELEPHONES IN THE CLASSROOM IMMEDIATELY FOLLOWING AN INITIAL INTERVIEW. ANOTHER GROUP OF 13 WAS GIVEN TELEPHONES FOLLOWING A SECOND INTERVIEW 3 MONTHS LATER. A THIRD GROUP OF EIGHT CHILDREN WAS INTERVIEWED ONCE BUT GIVEN NO ADDITIONAL EXPOSURE TO THE TELEPHONE. FINALLY, ALL THREE GROUPS WERE INTERVIEWED AT THE END OF AN 8-MONTH PERIOD. RESULTS INDICATED THAT THE TELEPHONE INTERVIEW IS A RELIABLE TECHNIQUE FOR RECORDING REPRESENTATIVE SPEECH SAMPLES FROM YOUNG CHILDREN AND HAS APPLICATION TO LONGITUDINAL STUDIES IN WHICH CHANGES IN VERBAL BEHAVIOR CAN BE ANALYZED IN TERMS OF VOCABULARY LEVEL, LANGUAGE STRUCTURE, AND ARTICULATION. NO SIGNIFICANT DIFFERENCES WERE FOUND IN A COMPARISON OF THE THREE GROUPS, SUGGESTING THAT EXPOSURE TO TELEPHONES IN THE CLASSROOM DID NOT STRONGLY INFLUENCE THE CHILD'S PERFORMANCE IN THE TELEPHONE INTERVIEW. THAT THIS 'EXPOSURE' TO THE TELEPHONE WAS ESSENTIALLY UNSTRUCTURED AND THAT THE CHILDREN IN THE STUDY WERE SIMILAR TO EACH OTHER SHOULD BE CONSIDERED.

TUCKER, THOMAS T. (AND OTHERS) SEMINAR BY AMPLIFIED TELEPHONE, A REPORT AND EVALUATION

RENO, NEVADA UNIVERSITY. NEVADA WESTERN STATES SMALL SCHOOLS PROJECT. CARSON CITY, 1968. 14P. ERIC ED 025 360

WESTERN-STATES-SMALL-SCHOOLS-PROJECT NEVADA-UNIV INSERVICE-ED TEACHER-ED EVALUATION

TELECONFERENCING, AN ANNOTATED BIBLIOGRAPHY

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RECID INDEX

4023A

JESSER, DAVID L. * CLARKE, MICHAEL J.

ART BY TELEPHONE

RENO, NEVADA UNIVERSITY. NEVADA WESTERN STATES SMALL SCHOOLS PROJECT. CARSON CITY, 1966. 13P.
ERIC ED 025 159

// WESTERN-STATES-SMALL-SCHOOLS-PROJECT NEVADA OREGON IDAHO UTAH SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS

IN AN ATTEMPT TO BRING ART INSTRUCTION INTO SMALL SCHOOLS FINANCIALLY UNABLE TO SUPPORT SUCH A PROGRAM, 11 HIGH SCHOOLS IN 4 WESTERN STATES HAVE BEEN RECEIVING SIMULTANEOUS INSTRUCTION IN ART FROM A CENTRAL SOURCE WITH THE AID OF AN AMPLIFIED TELEPHONE AND COORDINATED OVERHEAD TRANSPARENCIES. BEFORE THE ONSET OF CLASSES, THE INSTRUCTOR VISITS EACH SCHOOL IN ORDER TO GET ACQUAINTED WITH HIS STUDENTS. STUDENTS IN THE ART CLASSES ARE SUPERVISED BY LOCAL, INTERESTED TEACHERS, AND THE ART WORK IS MAILED BACK AND FORTH TO THE ART INSTRUCTOR. EACH SCHOOL IS LINKED TO EVERY OTHER SCHOOL AND TO THE INSTRUCTOR BY MEANS OF A REGULAR CONFERENCE CALL PLACED THROUGH THE TELEPHONE COMPANY. EACH STUDENT IS THUS ABLE TO HEAR THE INSTRUCTOR, VIEW PROJECTED TRANSPARENCIES, AND RESPOND OR QUESTION AS THE NEED ARISES. RESULTS OF THE EXPERIMENT SHOW THAT THIS TECHNIQUE IS HIGHLY EFFECTIVE IN COMMUNICATING BASIC ART SKILLS TO THOSE STUDENTS IN SCHOOLS WHOSE CURRICULA CONTAIN NO OFFERING IN THE ART AREA. (DA). SEE 4029, 4519 AND 4715. ERIC
A TAPED PROGRAM OF INSTRUCTION THAT ALLOWS STUDENTS TO RESPOND HAS BEEN DEVELOPED FOR USE ON FM RADIO AND LATER ON TELEVISION BY EDUCASTING SYSTEMS INC. MATERIAL IS PROGRAMED BY INTERNATIONAL CORRESPONDENCE SCHOOLS OF SCRANTON, PENNSYLVANIA. EVERY SO OFTEN IN THE COURSE OF INSTRUCTION A MULTIPLE-CHOICE QUESTION IS ASKED. THE STUDENT INDICATES HIS ANSWER BY PRESSING ONE OF FOUR BUTTONS ON HIS EDUCASTING RECEIVER UNIT. IF HE IS RIGHT, THE REASONING BEHIND THE CORRECT ANSWER IS EXPLAINED. IF HE IS WRONG, HIS MISTAKE IS EXPLAINED, THE CORRECT ANSWER IS GIVEN AND THE REASONING BEHIND IT. THE FM CARRIER IS MULTIPLEXED WITH FOUR SPECIAL CHANNELS WHICH CANNOT BE INTERCEPTED BY A STANDARD AM OR FM RECEIVER. UNITS CAN BE OPERATED WITHIN 30 MILES OF TRANSMITTER. SOURCE OF PROGRAMS WILL BE A FOUR-TRACK TEACHING TAPE WHICH FEEDS SIGNALS TO A FOUR-CHANNEL MODULATOR LINKED TO THE FM TRANSMITTER. THE SPECIAL RECEIVER WAS DESIGNED AND MANUFACTURED BY THE COMMERCIAL ELECTRONICS DIVISION OF SYLVANIA ELECTRIC PRODUCTS INC. FULL ARTICLE EDITED SLIGHTLY FOR LENGTH BY KS.
THREE YEARS EXPERIENCE WITH TWO-WAY RADIO CONFERENCES
NEW YORK STATE JOURNAL OF MEDICINE 58, 20, P3322-5, OCT 15, 1958

TWO YEARS OF EXPERIENCE WITH TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION
JOURNAL OF MEDICAL EDUCATION 33, 6, P474-82, JUNE 1958
In this article, the author describes a series of two-way radio conferences sponsored by the postgraduate division of the Albany Medical College and discusses the potentialities for other similar programs. Transmissions originate in Albany, New York, New Haven, Connecticut, Burlington, Vermont, and Boston, Massachusetts. They are then relayed by a broadcast transmitter atop the highest mountain in Massachusetts. Topics are announced in advance and programs are aired from 12 noon to 1:30 P.M. The number of hospitals participating in any one program is limited since this aids discussion, and therefore it is necessary to repeat programs three times per week. Although varied formats have been used, programs generally consist of a 20-minute topic review followed by a 40-minute discussion. The existence of four transmitters allows participation by the faculty of six different medical schools: Albany, Harvard, Boston University, Tufts, Yale, and the Vermont College of Medicine. Visual aids and printed handouts are used to supplement the teleconferences. The program has been very popular with physicians, since it has many advantages over standard postgraduate education programs, including the anonymity of participants. The author concludes by discussing the potential of similar programs, including an examination of cost factors. See 0542 and 4924.
Two-way radio in medical education

The Journal of Medical Education 38, 4, P319-28, April 1963

Victor Comptometer Corporation

Iowa teachers learn math via Verb

Victor Comptometer Corporation, Brochure. Received Jan 1970

Northwest-Iowa-Telewriter-Project Cedar-Falls State-College-of-Iowa Chicago Urbana Illinois-Univ Inservice-Ed Teacher-Ed Electrowriter

In the winter of 1965, the Northwest Iowa Electrowriter Project used Victor's Electrowriter Remote Blackboard (VERB) to instruct elementary and high school teachers in the use of New Math. Lasting eight weeks, the project connected seven Iowa cities with lecturers at 1) The Encyclopedia Britannica Press in Chicago 2) The University of Illinois in Urbana and 3) The State College of Iowa in Cedar Falls. Although other Electrowriter projects have been similarly concerned with education, the use of VERB by government and business is also very likely. FK

Aerospace engineers attend graduate school by remote control

Training in Business and Industry 5, 1, P41, Jan 1968

High-school instruction via telephone lines

Educational Technology 7, 23, P9-10, Dec 15, 1967

The Center for the Creative Application of Technology to Education on the Texas A&M Campus uses Sylvania equipment and leased telephone lines to transmit instructional material to high schools in 15 school districts within a 70 mile radius. The "Electronic Blackboard-by-Wire" provides mathematics, physics and English lessons as a supplement to conventional classroom teaching. Talkback from pupils to teacher is facilitated by the provision of audio units and question indicators at each reception point. The Director of the CATE Center points out the benefits of such a system for schools which lack the best resources. "The effect is an expanded curriculum delivered by the most competent teachers available." WH
LONG-DISTANCE 'BLACKBOARD-BY-WIRE'

EDUCATIONAL TECHNOLOGY 7, 7 P9, APRIL 15, 1967

KENTUCKY NEW-YORK TENNESSEE MID-APPALACHIA-COLLEGE-COUNCIL INTERUNIVERSITY-COOPERATION
HIGHER-ED LEASED-LINES CCTV COST ELECTROWRITER GT-E SYLVANIA
GENERAL-TELEPHONE-CO-OF-KENTUCKY

IN FEBRUARY OF 1967, COLLEGE CLASSROOMS IN KENTUCKY, TENNESSEE AND NEW YORK WERE LINKED BY AN ELECTRONIC 'BLACKBOARD-BY-WIRE' TEACHING SYSTEM THAT TRANSMITS HANDWRITING AS WELL AS VOICE COMMUNICATIONS OVER TELEPHONE LINES FOR LONG DISTANCE ILLUSTRATED LECTURES. THE PROGRAM WAS SPONSORED BY THE MID-APPALACHIA COLLEGE COUNCIL AND TWO GT+E SUBSIDIARIES, SYLVANIA ELECTRIC PRODUCTS, INC. AND THE GENERAL TELEPHONE COMPANY OF KENTUCKY. MUCH MORE ECONOMICAL THAN CLOSED CIRCUIT TV, THE BLACKBOARD-BY-WIRE SYSTEM CONTAINS AN AUDIO FEEDBACK UNIT FOR STUDENTS' QUESTIONS AND RESPONSES.

MEYER, THOMAS C.

EVALUATION OF THE EFFECTIVENESS OF THE TELEPHONE CONFERENCE AS A METHOD OF POST-GRADUATE MEDICAL EDUCATION

JOURNAL OF MEDICAL EDUCATION 42, 9, P874, SEPT 1967
TELECONFERENCING, AN ANNOTATED BIBLIOGRAPHY

RECID INDEX

4065C

PAULSON, ROBERT L.

TEL-A-LECTURE TECHNIQUE

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 42,6, P316-7, JUNE 1963

THIS ARTICLE IS A DESCRIPTION OF THE USES AND DEVELOPMENT OF THE TEL-A-LECTURE TECHNIQUE. IT CONSISTS OF HAVING AN AMPLIFIER HOOKED TO A TELEPHONE WHILE THE LECTURER, WHO MAY BE MILES AWAY, COMMENTS ON PROBLEMS, FILM CLIPS, AND OTHER SUITABLE MATERIAL. THIS RESEARCH PROJECT HAS BEEN UNDERTAKEN BY THE MALCOLM PRICE LABORATORY. ALTHOUGH RESEARCH IS IN THE EARLY EXPLORATORY STAGE, SEVERAL PRINCIPLES ARE ALREADY EVIDENT. SOME OF THESE ARE 1) THE NOVELTY OF THE DEVICE CREATES INTEREST THAT OFFSETS THE LACK OF A PERSONAL APPEARANCE BY A SPEAKER 2) THE MOST EFFECTIVE PART OF SUCH A PROGRAM IS THE QUESTION AND ANSWER PERIOD 3) PRESENTATION OF CONFERENCE CALL PROGRAMS ARE VERY WELL ADAPTED TO THIS DEVICE 4) VISUAL MATERIALS ARE OF EXTREME IMPORTANCE IN PRESENTATION AND 5) SAVINGS OF TIME AND MONEY ARE FACTORS THAT CANNOT BE IGNORED IN THE CASE OF THIS DEVICE.

4067C

TELELECTURE

BELL TELEPHONE COMPANY. 28P

ONLY RECENTLY HAS THE TELEPHONE BEEN REGARDED AS AN INSTRUMENT FOR TEACHING. THIS PAMPHLET EXPLAINS WHAT A TELELECTURE IS, HOW IT IS USED, HOW TO ORGANIZE THE PROGRAM, THE USE OF AUDIOVISUAL AIDS IN TELELECTURES, COMMUNICATIONS REQUIREMENTS, AND ADVANTAGES OF THE METHOD.

4068

WOOLSEY, FRANK M., JR.

TWO-WAY RADIO AND ITS ADVANTAGES

ANNALS OF THE NEW YORK ACADEMY OF SCIENCE 142,2, P424-7, MARCH 31, 1967
ELEMENTARY TEACHERS RECEIVE IN-SERVICE INSTRUCTION VIA 'TELELECTURE'.

ABSTRACT ON PAGE 6 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. ABSTRACTS OF INSTRUCTIONAL DEVELOPMENTS AT CIC INSTITUTIONS. REPORT NO. 1, SPRING 1966

// NORTHWEST-IOWA-TELEWRITER-PROJECT IOWA-UNIV TEACHER-ED MATHEMATICS ELECTROWRITER EVALUATION

INFORMATION IS AVAILABLE FROM THE COLLEGE OF EDUCATION, UNIVERSITY OF IOWA, CONCERNING THE NORTHWEST IOWA TELEWRITER PROJECT, AN IN-SERVICE TRAINING PROGRAM FOR TEACHERS OF MATHEMATICS IN THE ELEMENTARY SCHOOLS. INSTRUCTION WAS BROUGHT TO THE TEACHERS OF FOUR IOWA COUNTIES BY MEANS OF LECTURES OVER AMPLIFIED TELEPHONE AND A 'REMOTE BLACKBOARD.' THE TEACHERS WERE ABLE TO SEE BLACKBOARD ILLUSTRATIONS AND EXAMPLES PROJECTED ON SCREENS IN THE SEVEN RECEIVING CLASSROOMS AND TO TAKE PART IN DISCUSSIONS WITH THE DISTANT LECTURERS. FACULTY AT THE UNIVERSITY OF IOWA HELPED TO PREPARE EVALUATIVE INSTRUMENTS FOR THE PROJECT WHICH WAS ADMINISTERED BY THE FOUR COUNTY SCHOOL SYSTEMS. FOR FURTHER INFORMATION CONTACT PROFESSOR RAYMOND V. WIMAN, COLLEGE OF EDUCATION, THE UNIVERSITY OF IOWA, IOWA CITY, IOWA. CIC

RADIO TELEPHONE NETWORKS USED FOR IN-SERVICE INSTRUCTION

ABSTRACT ON PAGE 6-7 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. ABSTRACTS OF INSTRUCTIONAL DEVELOPMENTS AT CIC INSTITUTIONS. REPORT NO. 1, SPRING 1966

// OHIO-STATE-COLLEGE-OF-ED INSERVICE-ED EDUCATION-ADMINISTRATION FM-RADIO WOSU-FM

THE OHIO STATE COLLEGE OF EDUCATION RADIO-TELEPHONE NETWORK IS AN ADAPTATION OF A PROGRAM INSTITUTED SOME YEARS AGO BY THE COLLEGE OF MEDICINE AT THE UNIVERSITY. THE FACILITIES OF THE UNIVERSITY RADIO STATION, WOSU-FM, FORM THE NUCLEUS OF THE TECHNICAL CONTROL. THROUGH DIRECT RECEPTION FROM WOSU-FM OR THROUGH OTHER FM STATIONS CONNECTED BY LAND LINES FROM WOSU-FM, GROUPS OF EDUCATORS IN 24 SCHOOL DISTRICTS HEAR A PRESENTATION ON AN IMPORTANT EDUCATIONAL TOPIC. AT THE CONCLUSION OF THIS INITIAL DISCUSSION, IT IS POSSIBLE THROUGH A SYSTEM OF INTERCONNECTING LAND LINES FOR QUESTIONS TO BE DIRECTED TO THE SPEAKER IN THE STUDIO AT WOSU-FM. ALL SCHOOLS ON THE NETWORK HEAR THE QUESTIONS AND THE DISCUSSION WHICH MAY FOLLOW. PRESENT LIMITATIONS REQUIRE THAT A MAXIMUM OF 12 SCHOOLS PARTICIPATE ON ANY GIVEN BROADCAST. CONSEQUENTLY, TWO NETWORKS ARE REQUIRED TO PROVIDE SERVICE TO THE PARTICIPATING SCHOOLS. ONE NETWORK IS LOCATED IN NORTHWESTERN OHIO AND THE SECOND ONE SERVES SCHOOLS CLUSTERED IN THE CENTER OF THE STATE. THE TOPICS FOR DISCUSSION ON THE RADIO-TELEPHONE NETWORK HAVE BEEN CHOSEN BY SCHOOL ADMINISTRATORS VIA THEIR REPRESENTATIVES AND CONSTITUTE THE NEEDS OF SCHOOLS AS SEEN BY THOSE WHO DAILY MUST MEET INSTRUCTIONAL PROBLEMS IN THE FIELD. FOR FURTHER INFORMATION, CONTACT PROFESSOR WILLIAM B. MCARDLE, ASSISTANT DEAN, COLLEGE OF EDUCATION, OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210. CIC
TELECONFERENCING: AN ANNOTATED BIBLIOGRAPHY

UNDERGRADUATE DIAL-ACCESS LEARNING SYSTEM

ABSTRACT ON PAGE 19-20 IN COMMITTEE ON INSTITUTIONAL COOPERATION, COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES, DEVELOPMENT AND EXPERIMENT IN COLLEGE TEACHING, REPORT NO. 2, FALL 1966

COLUMBUS OHIO-STATE-UNIV HIGHER-ED LEARNING-CENTER COMPUTER COST HOME-STUDY

COURSE MATERIAL USED ON THE OHIO STATE DIAL-ACCESS LEARNING SYSTEM DURING ITS FIRST YEAR OF OPERATION RANGED FROM ELEMENTARY JAPANESE TO A FULL-LENGTH PRESENTATION OF HAMLET STARRING RICHARD BURTON. ALTOGETHER 13 DEPARTMENTS SCHEDULED PROGRAMS FOR MORE THAN 75 COURSES. THE SYSTEM IS ALREADY THE LARGEST REMOTE OPERATION OF ITS KIND IN THE NATION AND IS PRESENTLY UNDERGOING MAJOR EXPANSION. THE 292,000 DOLLAR COMPUTER-GUIDED SYSTEM WAS INSTALLED LAST YEAR AS A MAJOR STEP TOWARD ADAPTING MODERN ELECTRONIC EQUIPMENT TO THE TASK OF BRINGING RECORDED EDUCATIONAL MATERIAL TO LARGE NUMBERS OF STUDENTS AT VARIOUS CAMPUS LOCATIONS, INCLUDING THEIR LIVING QUARTERS. THE SYSTEM'S FIRST YEAR OF OPERATION WAS AN UNQUALIFIED SUCCESS JUDGING FROM THE RESPONSE OF STUDENTS AND FACULTY. STUDENTS DIALED AS MANY AS 40,000 TIMES PER WEEK AT PEAK USAGE, AND THE AMOUNT OF PROGRAM MATERIAL PROVIDED BY UNIVERSITY DEPARTMENTS TAXED THE CAPACITY OF THE SYSTEM. IT OPERATES OVER HIGH-FIDELITY CIRCUITS BY MEANS OF WHICH STUDENTS IN VARIOUS CAMPUS BUILDINGS CAN RECEIVE THE RECORDED MATERIAL TRANSMITTED FROM THE UNIVERSITY'S LISTENING CENTER. FROM CARREL-LIKE STATIONS, THE STUDENTS DIAL A THREE-DIGIT NUMBER TO GET THE DESIRED RECORDING, WHICH THEY HEAR THROUGH SPECIAL HEADPHONES. THE COMPLEX SWITCHING ARRANGEMENTS FOR THE SYSTEM ARE HANDLED BY A SOLID-STATE, STORED-PROGRAM COMPUTER. ADDITIONAL INFORMATION MAY BE OBTAINED BY WRITING TO DR. PAUL PIMSLEUR, DIRECTOR, LISTENING CENTER, 63 DENNEY HALL, 164 W. 17TH AVENUE, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210. SEE 4116. CIC. EDITED FOR LENGTH BY KS
TELEVISION NETWORK LINKS TWO UNIVERSITIES AND EXTENSION CAMPUSES

ABSTRACT ON PAGES 21-2 IN COMMITTEE ON INSTITUTIONAL COOPERATION, COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. DEVELOPMENT AND EXPERIMENT IN COLLEGE TEACHING. REPORT NO. 2, FALL 1966

HAMILTON FORT-WAYNE LAFAYETTE INDIANAPOLIS BLOOMINGTON MICHIGAN-CITY INDIANA-UNIV PURDUE-UNIV INTERUNIVERSITY-COOPERATION TV

EXTENSION CAMPUSES PUSE PROBLEMS OF INSTRUCTIONAL COORDINATION AND THE SHARING OF INSTRUCTIONAL RESOURCES THAT ARE DIFFICULT TO SOLVE. RECOGNIZING THIS, PURDUE UNIVERSITY HAS UNDERTAKEN TO EXAMINE IN DEPTH ITS INSTRUCTIONAL COMMUNICATION NEEDS OF THE FORESEEABLE FUTURE. WORKING WITH AN OUTSIDE FIRM WHICH HAS LONG EXPERIENCE IN THE DESIGN AND DEVELOPMENT OF COMMUNICATIONS SYSTEMS, UNIVERSITY REPRESENTATIVES HAVE TRACED PAST GROWTH IN ENROLLMENTS, INSTRUCTIONAL TELEVISION, EXTENSION CAMPUSE DEVELOPMENT, AND SEVERAL OTHER RELATED ELEMENTS. A FINAL REPORT GIVING THE RATIONALE AND SEVERAL OF THE SPECIFIC STEPS IN FUTURE DEVELOPMENT IS SCHEDULED TO APPEAR DURING THE FALL TERM, 1966. DURING THE PAST 4 YEARS, PURDUE HAS BEEN LINKED VIA TV MICROWAVE TO ITS EXTENSION CAMPUS IN INDIANAPOLIS. THIS LINK EXTENDS TO THE BLOOMINGTON CAMPUS OF INDIANA UNIVERSITY, PROVIDING INTER-UNIVERSITY SHARING OF RESOURCES, AS WELL AS THE LINKING OF INDIANA UNIVERSITY WITH ITS OWN INDIANAPOLIS EXTENSION CAMPUS. NOW, PLANS ARE FIRM FOR THE ESTABLISHMENT OF SIMILAR SERVICES TO OTHER PURDUE EXTENSION CAMPUSES. AS WITH THE OLDER LAFAYETTE-INDIANAPOLIS-BLOOMINGTON LINK, THESE NEW LINKS WILL BE USED TO TRANSMIT LOCAL Y TAUGHT COURSES, TO SHARE RESPONSIBILITIES IN THE TEACHING OF SOME COURSES, TO SHARE SEMINARS, COLLOQUIA, AND OTHER EVENTS OCCURRING ON EITHER OF THE TWO PRINCIPAL CAMPUSES. FOR MORE INFORMATION, CONTACT JAMES S. MILES, DIRECTOR OF THE TELEVISION UNIT, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907. CIC. EDITED FOR LENGTH BY KS

OFF-CAMPUS GRADUATE CENTER GETS AUDIO VIDEO LINK

ABSTRACT ON PAGE 23 IN COMMITTEE ON INSTITUTIONAL COOPERATION, COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. DEVELOPMENT AND EXPERIMENT IN COLLEGE TEACHING. REPORT NO. 2, FALL 1966

COLUMBUS DAYTON OHIO-STATE-UNIV WRIGHT-PATTERSON-GRADUATE-CENTER GRADUATE-ED TV

TEACHING AN EXTENSION COURSE BY TELE-LECTURE

ABSTRACT ON PAGE 10-1 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. DEVELOPMENT AND EXPERIMENT IN COLLEGE TEACHING.
REPORT NO. 4, SPRING 1968.


DIAL-ACCESS VIDEO AND AUDIO LEARNING SYSTEM

ABSTRACT ON PAGES 22-3 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. DEVELOPMENT AND EXPERIMENT IN COLLEGE TEACHING.
REPORT NO. 4, SPRING 1968.

OHIO STATE UNIVERSITY STUDENTS ARE NOW ABLE TO DIAL THE PICTURE AS WELL AS THE SOUND. THE UNIVERSITY'S 450,000 DOLLAR DIAL-ACCESS LEARNING SYSTEM HAS INCORPORATED 18 TELEVISION RECEPTORS INTO THE DISTRIBUTION SYSTEM WHICH PREVIOUSLY BROUGHT ONLY AUDIO PROGRAMS TO STUDENTS AT REMOTE POINTS ON THE CAMPUS AND IN THE UNIVERSITY AREA (SEE 4112). THE LISTENING CENTER'S 25,000 DOLLAR EXPANSION INTO THE VISUAL FIELD PROVIDES 9-INCH TELEVISION RECEIVERS IN STUDENT BOOTHS ALSO EQUIPPED WITH HEADSETS. STUDENTS MAY DON HEADSETS AND OBTAIN THE AUDIO PORTION OF AN INSTRUCTIONAL PROGRAM BY DIALING A THREE-DIGIT NUMBER. THIS WILL ALSO ACTIVATE THE VIDEO SET, ON WHICH THE STUDENT WILL SELECT THE APPROPRIATE VISUAL PROGRAM CHANNEL FOR HIS CLASS. ONLY TWO VIDEO PROGRAM SOURCES, THOSE OF THE DEPARTMENTS OF BIOLOGICAL SCIENCES AND CHEMICAL
ONLY TWO VIDEO PROGRAM SOURCES, THOSE OF THE DEPARTMENTS OF BIOLOGICAL SCIENCES AND CHEMICAL ENGINEERING, ARE EMPLOYED DURING THIS EXPERIMENTAL PERIOD. THESE TWO DEPARTMENTS ARE SHOWING OSMOSIS, MITOSIS, AND VORTICITY TO THEIR STUDENTS, AND ARE VERY ENTHUSIASTIC ABOUT THE ADDED VISUAL DIMENSION WHICH ALLOWS THEM TO MORE EFFECTIVELY TEACH THESE TOPICS. THE INITIAL OPERATION IS EXPECTED TO GENERATE ADDITIONAL NEW PROGRAM MATERIAL AND TO PROVIDE INFORMATION ON USE OF THE VIDEO EQUIPMENT. FOR FURTHER INFORMATION CONTACT DR. PAUL PIMSLEUR, DIRECTOR, LISTENING CENTER, 63 DENNEY HALL, THE OHIO STATE UNIVERSITY, 164 WEST 17TH AVENUE, COLUMBUS, OHIO 43210. SEE 4112. CIC. EDITED FOR LENGTH BY KS

CONTINUING EDUCATION IN PHARMACY VIA TELECOMMUNICATIONS NETWORK

ABSTRACT ON PAGE 14 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. ABSTRACTS OF INSTRUCTIONAL DEVELOPMENTS AT CIC INSTITUTIONS. REPORT NO. 5, SPRING 1969

MULTIMEDIA INSTRUCTION IN EXTENSION

ABSTRACT ON PAGES 24-5 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. ABSTRACTS OF INSTRUCTIONAL DEVELOPMENTS AT CIC INSTITUTIONS. REPORT NO. 5, SPRING 1969

THE UNIVERSITY OF ILLINOIS DIVISION OF UNIVERSITY EXTENSION, IN COOPERATION WITH INTERESTED COLLEGES, IS USING A COMBINATION OF ELECTROWRITER AND VOICE COMMUNICATION VIA A SPECIAL LOOP CALLED UNIVEX FOR UNIVERSITY EXTENSION LINES IN AN EXPERIMENTAL TEACHING APPROACH. THESE LINES, DURING ACADEMIC 1968-69, TIE INTO CLASSROOMS IN DECATUR, FREEPORT, MALTA, QUINCY, ROCKFORD, ROCK ISLAND-MOLINE, SPRINGFIELD, URBANA-CHAMPAIGN, AND SOUTH BELOIT. PRINCIPAL GOALS OF THE EFFORT ARE 1) TO ASCERTAIN TYPES OF SUBJECT MATTER AND COURSES THAT CAN BE FRUITFULLY TAUGHT AND LEARNED THROUGH THIS APPROACH 2) TO EXTEND THE AVAILABILITY OF HIGHLY SPECIALIZED COURSES TO INTERESTED AND QUALIFIED PART-TIME STUDENTS WITHIN A LARGE GEOGRAPHICAL AREA AND 3) TO DETERMINE ACCEPTANCE AND EFFECTIVENESS OF THIS REMOTE TEACHING-LEARNING SYSTEM IN COMPARISON WITH CONVENTIONALLY TAUGHT CLASSES. IN MOST CASES, THE COURSE OFFERINGS ARE FOR GRADUATE ENGINEERS. TWO FRESHMAN COURSES HAVE BEEN SCHEDULED IN COMPUTER SCIENCE AND AGRICULTURE TO SUPPLEMENT COURSE OFFERINGS OF JUNIOR COLLEGES. ONE GRADUATE COURSE IN LIBRARY SCIENCE HAS BEEN CONDUCTED. TWO IN AGRICULTURE ARE CURRENTLY BEING CONDUCTED. THE REMOTE TEACHING IS SOMETIMES SUPPLEMENTED BY VISITS OF INSTRUCTORS TO THE CLASS SITES, BY ON-CAMPUS ORIENTATION AND/OR WEEKEND LABORATORY SESSIONS, OR BY ASSIGNED WORK BY CORRESPONDENCE. CERTAIN SUPPLEMENTAL HOURS ARE UNIFORMLY SET ASIDE FOR AN INSTRUCTOR TO ANSWER QUESTIONS AND CLEAR UP DIFFICULTIES phoned in by individual members of his class. ADDITIONAL INFORMATION CAN BE OBTAINED FROM DEAN STANLEY ROBINSON, DIVISION OF UNIVERSITY EXTENSION, UNIVERSITY OF ILLINOIS, URBANA. CIC. EDITED FOR LENGTH BY KS
MEDICAL RADIO CONFERENCES

CALIFORNIA MEDICINE 104, P141, FEB 1966

IN 1963, THE DIVISION OF CONTINUING EDUCATION IN MEDICINE AND THE HEALTH SCIENCES AT THE UNIVERSITY OF CALIFORNIA MEDICAL CENTER, SAN FRANCISCO, INITIATED A SERIES OF TWO-WAY RADIO BROADCASTS DESIGNED TO BRING WORK OF THE LATEST MEDICAL DEVELOPMENTS TO PHYSICIANS UNABLE TO ATTEND FORMAL POSTGRADUATE COURSES. THESE BROADCASTS DISSEMINATE INFORMATION INEXPENSIVELY TO A LARGE AUDIENCE AND SAVE TIME FOR MANY CALIFORNIA PHYSICIANS IN OUTLYING DISTRICTS. THE QUESTION AND ANSWER SESSIONS WITHIN EACH BROADCAST SEEM TO BE A KEY ELEMENT IN THE SUCCESS OF THE PROJECT. THESE BROADCASTS, WHICH HAVE A LARGE FOLLOWING, ARE BUT AN INDICATION OF HOW AUDIOVISUAL MEDIA CAN BE USED TO FURTHER POSTGRADUATE MEDICAL EDUCATION.

EXPERIMENTATION TO DETERMINE THE FEASIBILITY OF REMOTE SUPERVISION OF STUDENT TEACHERS

OHIO STATE UNIVERSITY, PH.D. DISSERTATION, 1969. 227P. ERIC ED 033 203

TO EXAMINE THE FEASIBILITY OF REMOTE SUPERVISION OF PRESERVICE HOME ECONOMICS EDUCATION STUDENTS, 36 STUDENTS INVOLVED IN THE STUDENT TEACHING EXPERIENCE WERE ASSIGNED TO THREE METHODS OF SUPERVISION: 1) FACE-TO-FACE, WITH OBSERVATION CONTACTS AND SUPERVISORY CONFERENCES AT THE PUBLIC SCHOOL, 2) AUDIO-PHONE, PHONE CONFERENCES RELATING TO AUDIO-TAPED LESSONS AND OTHER PROBLEMS, AND 3) VIDEO-PHONE, CONSISTING OF PHONE CONFERENCES AND VIDEO-TAPED LESSONS. THE INSTRUMENTS USED WERE A SCALE TO MEASURE PRE- AND POST-TEACHING CONFIDENCE, A CRITIQUE FORM TO MEASURE IMPROVEMENT OF A SPECIFIC TEACHING SKILL, AND A RATING SCALE TO MEASURE SATISFACTION OF THE COLLEGE SUPERVISOR, SUPERVISING TEACHER, AND STUDENT TEACHER WITH THE METHOD EMPLOYED. THE METHODS DIFFERED SIGNIFICANTLY IN RELATION TO THE SATISFACTION EXPRESSED BY STUDENT TEACHERS AND SUPERVISING TEACHERS. FACE-TO-FACE, VIDEO-PHONE, AND AUDIO-PHONE WERE FAVORED IN THAT ORDER. THE METHODS DID NOT DIFFER SIGNIFICANTLY IN RELATION TO THE SATISFACTION EXPRESSED BY COLLEGE SUPERVISORS OR THE STUDENT TEACHERS. CONFIDENCE OR TEACHING SKILL SCORES. COST IS COMPARABLE WHEN SCHOOLS AND UNIVERSITIES HAVE THE NEEDED EQUIPMENT. THE FACE-TO-FACE METHOD REQUIRED 7 HOURS MORE PER STUDENT TEACHER. THIS PH.D. DISSERTATION WAS SUBMITTED TO THE OHIO STATE UNIVERSITY. (JK). ERIC
PLANNING A SUPPLEMENTARY EDUCATIONAL CENTER AND FOR CONTINUING SERVICES WITH PILOT PROJECTS AND OPERATIONAL PROGRAMS FOR WESTERN SOUTH-DAKOTA

RAPID CITY, SOUTH DAKOTA, DOUGLAS INDEPENDENT SCHOOL DISTRICT 3. PROJECT NUMBER DPSC-66-2221, 146P. PAGE 5509 856

// INSERVICE-EDUCATION-ADMINISTRATION LEARNING-CENTER PROGRAMED-INSTRUCTION

A CENTER WILL BE PLANNED AND FIVE PROJECTS CONDUCTED TO SERVE STUDENTS FROM 17 COUNTIES. ONE PROJECT WILL INVOLVE PLANNING A DATA-PROCESSING, REPORTING SYSTEM TO EXCHANGE AND COMPARE PERFORMANCE DATA AMONG 18 SCHOOL DISTRICTS. EACH DISTRICT WILL BE CONNECTED TO A CENTRAL COMPUTER WHERE MANAGEMENT AND STUDENT RECORDS WILL BE STORED. LONG-RANGE PLANS INCLUDE SUCH POSSIBILITIES AS MASTER SCHEDULING AND PROGRAMED INSTRUCTION. THE SECOND PROGRAM INVOLVES A TELEPHONE COMMUNICATION SYSTEM FOR GROUP AND INDIVIDUAL CONFERENCE PURPOSES. A TOUCH-TONE TYPE TELEPHONE WILL BE INSTALLED IN EACH OF 18 SCHOOL DISTRICTS TO IMPROVE COMMUNICATIONS AND MAKE MORE EFFECTIVE USE OF TIME BY SCHOOL PERSONNEL. THE THIRD PROJECT WILL BE A TUMBLING AND GYMNASTICS PROGRAM FOR GRADES 1-12 IN A CITY SCHOOL SYSTEM TO IMPROVE MOTOR SKILLS, TEACH BALANCE AND COORDINATION, IMPROVE STRENGTH, GRACE, AND POISE, AND IMPROVE PHYSICAL FITNESS. PROJECT FOUR WILL INVOLVE A MOBILE REMEDIAL READING CLASSROOM - STAFFED WITH A REMEDIAL READING TEACHER - WHICH WILL VISIT EACH OF 21 SCHOOLS 12 TIMES PER MONTH. THE FIFTH PROJECT INVOLVES INSERVICE TRAINING, INCLUDING A FORMAL TRAINING PROGRAM FOR COUNTY SUPERINTENDENTS AND A BASIC SKILLS WORKSHOP FOR TEACHERS. APPROXIMATELY 45,706 STUDENTS WILL BE SERVED. (JE). PAGE
CARBON-COUNTY COORDINATED INSTRUCTION CENTER

RAWLINS, WYOMING, CARBON COUNTY SCHOOLS PROJECT NUMBER DPSC-76-808. 45P. PAGE ES 000 985

WYOMING CCCIC REGIONAL-CENTER LEARNING-CENTER PRIMARY-ED SECONDARY-ED TEAM-TEACHING CURRICULUM-ENRICHMENT EXTENSION TEACHER-ED ELECTROWRITER AUDIOVISUAL-LIBRARY

AN INSTRUCTIONAL CENTER AND AUDIOVISUAL LIBRARY WILL BE ESTABLISHED TO SERVE 10 PUBLIC SCHOOL DISTRICTS AND ONE PRIVATE SCHOOL IN THE COUNTY. THE CENTER WILL BE EQUIPPED WITH RECEIVING AND TRANSMITTING UNITS FOR AN ELECTROWRITER REMOTE BLACKBOARD SYSTEM. RECEIVING AND TRANSMITTING UNITS FOR THE ELECTROWRITER WILL ALSO BE INSTALLED AT THE STATE UNIVERSITY IN ANOTHER COUNTY AND LINKED TO THE CENTER. IN ADDITION, EACH OF THE SIX HIGH SCHOOLS IN THE COUNTY WILL BE EQUIPPED WITH RECEIVING UNITS LINKED TO THE CENTER. THE ELECTROWRITER WILL BE USED FOR A GUEST LECTURE SERIES, CLASSROOM LECTURES, AND EXTENSION COURSES FOR TEACHERS, CONDUCTED BY UNIVERSITY FACULTY MEMBERS AND TRANSMITTED FROM THE UNIVERSITY. PROGRAMS INVOLVING GUEST LECTURERS AND TEAM TEACHERS WILL ALSO BE PRODUCED LOCALLY. THE ELECTROWRITER--OR TELELECTURE--SYSTEM ALLOWS FOR BOTH ORAL AND VISUAL CONTACT BETWEEN THE LECTURER AND LARGE OR SMALL CLASSES THAT MAY BE SCATTERED OVER A LARGE AREA. ORAL CONTACT IS PROVIDED VIA TELEPHONE. A VISUAL IMAGE IS TRANSMITTED OVER A TELEPHONE WIRE, RECEIVED BY THE ELECTROWRITER RECEIVER, AND PROJECTED ON A MOVIE SCREEN. THE LECTURER CAN TRANSMIT SKETCHES, DIAGRAMS, AND MAPS. THE ELECTROWRITER SYSTEM WILL MAKE IT POSSIBLE TO PRESENT ADVANCED PLACEMENT OR SPECIAL-INTEREST CLASSES NOT OFFERED IN THE REGULAR CURRICULUM IN EACH SCHOOL BECAUSE OF SMALL ENROLLMENTS AND LIMITED FINANCES. APPROXIMATELY 4,098 ELEMENTARY AND SECONDARY STUDENTS WILL BE SERVED. (JE) PAGE

SPECIAL EDUCATION SERVICE CENTER

DOWNEY, CALIFORNIA, DOWNEY UNIFIED SCHOOL DISTRICT. PROJECT NUMBER DPSC-68-5949. PAGE ES 002 566

A PROGRAM OF TELECLASS TEACHING WILL BE ESTABLISHED FOR PHYSICALLY HANDICAPPED, HOMEBOUND STUDENTS FROM 13 PARTICIPATING DISTRICTS. MULTIDISTRICT PROGRAMS OF INSERVICE EDUCATION, DEMONSTRATION TEACHING AND MATERIALS DEVELOPMENT FOR SPECIAL EDUCATION TEACHERS WILL BE PROVIDED. FIVE PROGRAMS WILL BE ESTABLISHED IN THE CENTER 1) A MULTIDISTRICT PROGRAM OF TELECLASS TEACHING FOR PHYSICALLY HANDICAPPED, HOMEBOUND STUDENTS 2) A CONTINUING PROGRAM OF INSERVICE EDUCATION, ON AN INTERDISTRICT BASIS, FOR PROFESSIONAL AND SEMIPROFESSIONAL PERSONNEL WHO WORK WITH EXCEPTIONAL CHILDREN 3) A SPECIAL EDUCATION INSTRUCTIONAL MATERIALS CENTER TO EVALUATE, DEMONSTRATE, DISPLAY AND DEVELOP CURRICULUM MATERIALS 4) COORDINATION OF COOPERATIVE PLANNING AND PLACEMENT OF HANDICAPPED STUDENTS IN AREAS OF DISABILITY WHERE INDIVIDUAL DISTRICTS HAVE INADEQUATE NUMBERS OF CHILDREN TO OPERATE INDIVIDUAL PROGRAMS 5) REFERRAL SERVICES TO ASSIST IN SECURING THE NEEDED SERVICES FOR HANDICAPPED CHILDREN. APPROXIMATELY 6,452 STUDENTS, GRADES 1-12, WILL BE SERVED. (JL) PAGE
HELCRICH, F.J., JR.

MEDIC, A COOPERATIVE VENTURE IN CONTINUING MEDICAL EDUCATION

MARYLAND STATE MEDICAL JOURNAL 16, P90-3, MARCH 1967

SINCE A STATE-WIDE EDUCATIONAL TELEVISION NETWORK WAS NOT AVAILABLE AND FM RADIO APPEARED PROHIBITIVELY EXPENSIVE, COMMUNITY HOSPITALS IN MARYLAND WERE LINKED BY TELEPHONE IN OCTOBER, 1965...FOR THE PURPOSE OF DISSEMINATING PROGRAMS OF MEDICAL INTEREST AMONG MARYLAND PHYSICIANS. PARTICIPANTS IN VARIOUS CONVENIENT LOCATIONS CAN LISTEN TO THE SIMULTANEOUS TRANSMISSION OF MATERIAL AND SPEAK OVER THE NETWORK. FURTHERMORE, SLIDES AND OTHER SUPPLEMENTARY MATERIAL ARE DUPLICATED AND DISTRIBUTED BY MAIL BEFORE EACH PROGRAM AND USED IN CONJUNCTION WITH THE AUDIO TRANSMISSION. THIS SYSTEM FACILITATES THE RAPID SHARING OF MEDICAL AND PARAMEDICAL PROGRAMS AND IS ESPECIALLY BENEFICIAL TO THOSE HOSPITALS WITH LIMITED RESOURCES. THE PROJECT HAS BEEN FINANCED BY THE HOSPITALS, THE STATE HEALTH DEPARTMENT AND THE PHYSICIANS' STATE ORGANIZATION, WITH THE PHYSICIANS RETAINING OVERALL CONTROL. PRESENTLY MEDIC PROGRAMS ARE EVALUATED BY MEANS OF TABULATION OF PHYSICIANS ATTENDING AND THEIR COMMENTS AND CRITICISMS. IN 18 MONTHS THE MEDIC NETWORK HAS GROWN CONSIDERABLY AND NOW INVOLVES 33 GENERAL HOSPITALS OUT OF THE 44 IN THE STATE. PROVISIONS ARE BEING MADE TO TAPE RECORD AND STORE THE TELECONFERENCE PROGRAMS FOR FUTURE REFERENCE AND USE BY A WIDER AUDIENCE. HELDRICH HOPES FOR THE EXPANSION OF MEDIC TO INCORPORATE THE USE OF TELEVISION.

MEYER, THOMAS C. * HANSEN, RICHARD H. * KELIHER, JERRY J.

COMMUNICATIONS, REPORT OF AN EXPERIMENT IN THE USE OF TELELECTURES FOR THE CONTINUING EDUCATION OF PHYSICIANS AND ALLIED HEALTH PERSONNEL

JOURNAL OF MEDICAL EDUCATION 43,1, P73-7, JAN 1968
TELECONFERENCING, AN ANNOTATED BIBLIOGRAPHY

RECID INDEX

4133C

*** HORNBACK, MAY S. * BRUNCLIK, HELEN L.

PARTY-LINE FOR NURSES

NURSING OUTLOOK 16, P30-1, MAY 1968

// WISCONSIN-UNIV EXTENSION-UW INSERVICE-ED CONTINUING-ED EVALUATION-QUESTIONNAIRE VISUAL-AIDS ETN-SCA FM-RADIO


4135C

*** PAGE, WILLIAM G. * SCHWEIKART, ROBERT B.

MEDICAL EDUCATION NETWORK

OHIO STATE MEDICAL JOURNAL 64, P36+, JAN 1968

// OMEN OHIO PENNSYLVANIA KENTUCKY WEST-VIRGINIA REGIONAL-MEDICAL-NETWORKS CONTINUING-ED FM-RADIO TV CATV

THE OHIO MEDICAL EDUCATION NETWORK (OMEN) WAS ESTABLISHED IN 1962 TO FILL THE GROWING NEED TO DISSEMINATE INFORMATION FROM MEDICAL RESEARCH CENTERS TO PHYSICIANS AND PATIENTS AS QUICKLY AS POSSIBLE. PROGRAMS ARE BROADCAST FIVE TIMES WEEKLY OVER A DOZEN FM RADIO STATIONS TO 61 HOSPITALS IN OHIO, PENNSYLVANIA, KENTUCKY AND WEST VIRGINIA. BROADCAST AT NOON, THE ONE-HOUR PROGRAMS ARE "LIVE," TWO-WAY DISCUSSIONS BETWEEN HOME-COMMUNITY PHYSICIANS AND MEDICAL SCHOOL TEACHERS ON SUBJECTS VITAL TO CONTINUING MEDICAL EDUCATION. IN 1966 THE PROGRAMMING WAS EXPANDED TO INCLUDE NURSING TOPICS. OPEN-CIRCUIT TV WITH TWO-WAY AUDIO HAS ALSO BEEN USED BY THE CMEN. CM
SMITH, MARJURIE

ANOTHER WAY FOR DOCTORS TO KEEP UP

TELE-MED IS A COMMERCIAL DIAL-ACCESS SERVICE WHICH PROVIDES PRACTICING DOCTORS ACCESS TO CURRENT MEDICAL INFORMATION. TAPE-RECORD PROGRAMS INCLUDING MEDICAL NEWS REPORTS, ANNOUNCEMENTS OF MEDICAL MEETINGS, PREVIEWS OF JOURNALS AND INTERVIEWS WITH MEDICAL PERSONALITIES ARE MADE AVAILABLE BY TELEPHONE 24 HOURS A DAY. IRVIN P. SULDS CREATED TELE-MED, WHICH UTILIZES LEASED TELEPHONE LINES AND SERVICES NEW YORK, CHICAGO, DETROIT, LOS ANGELES AND SEATTLE. THE SERVICE IS FINANCED BY PHARMACEUTICAL COMPANIES WHICH AIR A COUPLE OF COMMERCIALS DURING EACH 12-MINUTE PROGRAM. THE SERVICE COSTS PHYSICIANS ONLY THE PRICE OF A PHONE CALL, AND THEIR RESPONSE HAS GENERALLY BEEN FAVORABLE. FOR PHYSICIANS IN CITIES WITHOUT TELE-MED, TAPES OF THE PROGRAMS FOR ONE WEEK MAY BE RENTED. THE VENTURE IS EXPECTED TO EXPAND RAPIDLY TO INCLUDE OTHER CITIES.

PHYSICAL THERAPISTS BEGIN LEARNING BY RADIO

PHYSICAL THERAPY 49, P192, FEB 1969

PHYSICAL THERAPISTS IN 40 HOSPITALS IN THE TRI-STATE (NEW YORK, VERMONT AND MASSACHUSETTS) ALBANY REGIONAL MEDICAL PROGRAM ARE ABLE TO DISCUSS SPECIALIZED PHYSICAL THERAPY TECHNIQUES WITH EACH OTHER AND WITH SPECIALISTS OVER THE TWO-WAY FM RADIO NETWORK OF ALBANY MEDICAL COLLEGE. "THE ALBANY REGIONAL MEDICAL PROGRAM IS AN EFFORT TO IMPROVE PATIENT CARE BY STIMULATING COOPERATION IN THE MEDICAL COMMUNITY AND BY ACCELERATING DISTRIBUTION OF MEDICAL KNOWLEDGE TO HEALTH AND MEDICAL WORKERS."

TELEPHONE LECTURES FOR NURSES FUNDED BY NEW-YORK-RMP

AMERICAN JOURNAL OF NURSING 69, P926+, MAY 1969

BUFFALO, N.Y. A 955,685 DOLLAR GRANT TO THE REGIONAL MEDICAL PROGRAM FOR WESTERN NEW YORK WILL FINANCE, AMONG OTHER PROJECTS, CONTINUATION OF THE TWO-WAY TELEPHONE LECTURE NETWORK, WHICH PRESENTS TELEPHONE LECTURES FOR NURSES, PHYSICIANS, DENTISTS, PHARMACISTS, AND OTHER HEALTH ALLIED PROFESSIONS AND CORONARY CARE TRAINING PROGRAM FOR PHYSICIANS AND NURSES IN BUFFALO. THE TELEPHONE NETWORK HAS 47 LISTENING POSTS IN HOSPITALS THROUGHOUT THE REGION. IT PROVIDES LECTURES AND CONFERENCES TO A VARIETY OF AUDiences VIA THE PRIVATE TELEPHONE LINE. A PROGRAM IN PULMONARY DISEASES IS PLANNED FOR NURSES AND PHYSICIANS. THE ALREADY FUNCTIONING CORONARY CARE TRAINING PROGRAM LAST YEAR PROVIDED 72 NURSES AND 60 PHYSICIANS WITH TRAINING IN THE OPERATION OF CORONARY OR CARDIAC CARE UNITS." FULL NEWS ITEM QUOTED HERE.
TELECONFERENCING, AN ANNOTATED BIBLIOGRAPHY

4139C

GEORGETOWN UNIVERSITY HAM NETWORK SENDS CONSULTATIONS OVERSEAS
HOSPITALS 42, P147, FEB 1, 1968

GEORGETOWN-UNIV INTERNATIONAL-MEDICAL-AMATEUR-RADIO-SOCIETY EMERGENCY-CONSULTATION ECUADOR
LATIN-AMERICA SCOTLAND MEXICO RADIO-AMATEUR

*A HAM RADIO STATION PROVIDING EMERGENCY CONSULTATION TO HOSPITALS, MEDICAL SCHOOLS, AND MISSIONS OVERSEAS IS BEING OPERATED BY GEORGETOWN UNIVERSITY, WASHINGTON, D.C., DEDICATED JANUARY 4. THE FACILITY IS KNOWN AS THE INTERNATIONAL MEDICAL AMATEUR RADIO SOCIETY. INITIAL BROADCASTS ARE BEING MADE BETWEEN GEORGETOWN AND SIMILAR MEDICAL RADIO FACILITIES AT THE UNIVERSITY OF QUAYAQUIL, MEDICAL SCHOOL, QUAYAQUIL, ECUADOR, AND AT MEDICAL MISSIONS IN LATIN AMERICA. RADIO CONTACTS ARE BEING PLANNED WITH THE EDINBURGH SCHOOL OF MEDICINE IN SCOTLAND AND THE RADIO STATION AT THE UNIVERSITY OF MEXICO MEDICAL SCHOOL IN MEXICO CITY.* FULL NEWS ITEM QUOTED HERE. SEE 4141

4140C

NURSES OF NINE CITIES LINKED BY EDUCATIONAL TV INTERCOM
AMERICAN JOURNAL OF NURSING 66, P1702, AUGUST 1966
GEORGETOWN'S INTERNATIONAL RADIO
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 200,9, P807, MAY 29, 1967

A NEW SHORTWAVE RADIO STATION, WA3FXJ, WITH STUDIOS ON THE CAMPUS OF GEORGETOWN UNIVERSITY HAS BEEN ESTABLISHED RECENTLY. THE NEW UNIT WILL BE KNOWN AS GEORGETOWN'S INTERNATIONAL MEDICAL AMATEUR RADIO STATION AND IT WILL BE USED PRIMARILY FOR TEACHING MEDICAL STUDENTS IN OTHER COUNTRIES. THE STATION WILL PROVIDE A SERIES OF MEDICAL PROGRAMS AND AN EMERGENCY CONSULTING SERVICE FOR TEACHING PURPOSES WHEREVER AND WHEREVER THE NEED EXISTS. FINANCIAL SUPPORT OF THIS STATION CAME FROM THE RIKER LABORATORIES, A DIVISION OF REXALL COMPANY (WASHINGTON DAILY NEWS, APRIL 18, 1967). FULL NEWS ITEM QUOTED HERE. SEE 4139

NURSING RADIO CONFERENCES
NURSING OUTLOOK 15, P32-3, MAY 1967


EVALUATION INFERENCE APPLIED TO PROGRAMMING ON AN EDUCATIONAL TELEPHONE NETWORK - A BEGINNING

11P. ERIC ED 036 763
A study was made of a noncredit home economics program presented by the University of Wisconsin Extension over the statewide educational telephone network (ETN). The study was limited to the total population involved in one program (54) and their immediate reaction to that program.

Methodology used was a combination of action research and field research. The instrument was developed around six factors: environment, content, program process, lecturer, moderator, and technical qualities of the ETN. Variables concerned with the various factors were interspersed and resulted in 48 items plus a 9-point scale for an overall assessment of the program. A four-point interval scale was used with each of the 48 variables. The instrument was open-ended, with provision for suggestions for improvement. Subjective evaluative inference based on means and standard deviations indicated the overall program was somewhat better than an average one with room for improvement. A better approach to organization and a more careful analysis of the level of content could lead to increased effectiveness. The moderator should assume the role of group leader in an attempt to bring about more group interaction.

(Author/EB). Eric

Teleconferencing, an annotated bibliography

Recid Index
To test the feasibility of teaching a methods course totally or partially by telelecture, a control group of 15 was taught by traditional lecture-discussion, an experimental group of 15 was taught with 50 percent traditional and 50 percent telelecture, and another experimental group of 25 was taught only by telelecture. Each group consisted of inservice vocational-technical teachers enrolled in a one-semester course on the principles of teaching industrial subjects. All students were given an OTIS employment test and a pretest of course content to measure general ability and initial status, and written and oral evaluation procedures were conducted throughout the course. Data were analyzed by one-way analysis of variance, chi-square, coefficient of correlation, and concordance w. Conclusions indicated (1) a professional course may be presented with equivalent results either by traditional or telelecture methods, (2) student attitudes were not adversely affected by either course content or method of presentation and (3) telelecture was more economical in costs and in travel time. This Ed.D. thesis was submitted to the University of Missouri. (GR) ERIC.
This report reviews evaluations of two instructional systems that the faculty of the College of Agriculture, University of Illinois, are now using in their extramural teaching. The systems are (1) 'UNIVEX NET,' which transmits audio and visual signals via telephone lines from one campus classroom to another classroom located somewhere else in the state, and (2) auto-tutorial CAREL units which provide for independent study. A combination of the auto-tutorial and the UNIVEX system is also evaluated. The evaluations are learner oriented. Attitude was measured with the ILLINOIS COURSE EVALUATION QUESTIONNAIRE. Actual performance was measured by grades and specific criteria for success in obtaining educational objectives. (The questionnaire and four references are included.) (Author/LY). ERIC 4507C

*** PETTERSON, BERNADEINE H.

ADULT EDUCATION BY MEANS OF TELEPHONE

PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 7P. ERIC ED 036 758

*** WISCONSIN-UNIV EXTENSION-UW GRADUATE-ED CONTINUING-ED HOME-ECONOMICS

EVALUATION-CONTROL-GROUP ETN ARTICULATED-INSTRUCTION

USING A GRADUATE CREDIT AND A NONCREDIT HOME ECONOMICS COURSE, THIS STUDY OF THE UNIVERSITY OF WISCONSIN EDUCATIONAL TELEPHONE NETWORK (ETN) INVESTIGATED WHETHER TELEPHONE INSTRUCTION CAN BE EFFECTIVE IN ADULT EDUCATION, AND HOW ADULTS WOULD REACT TO THIS MEDIUM OF REMOTE, OFF CAMPUS EXTENSION TEACHING. THE GRADUATE COURSE WAS DIVIDED BETWEEN AN EXPERIMENTAL GROUP (TELEPHONE) AND A CONTROL GROUP (ON CAMPUS, FACE-TO-FACE INSTRUCTION). THE ETN NONCREDIT SEMINAR CONSISTED OF THREE TWO-HOUR SESSIONS, ONE A WEEK. TENTATIVE EVALUATIONS LED TO THESE CONCLUSIONS: 1) WAYS OF HANDLING TELEPHONE COURSE CONTENT AND FORMAT NEED TO BE IDENTIFIED AND IMPLEMENTED 2) PARTICIPANTS AND PROGRAM LECTURERS NEED PREPARATION FOR THE MECHANICAL ASPECT OF SUCH EXPERIENCES 3) CERTAIN TYPES OF INDIVIDUALS FUNCTION BETTER WITH ARTICULATED MEDIA THAN OTHERS DO 4) VISUAL AIDS IN TELEPHONE INSTRUCTION ENHANCE PRESENTATIONS AND EASE REMOTENESS 5) CERTAIN SKILLS CAN BE LEARNED WHICH ENABLE PERSONS TO INCREASE THEIR EFFECTIVENESS UNDER TELEPHONE INSTRUCTION 6) TELEPHONE INSTRUCTION IS USEFUL FOR PERSONS SCATTERED OVER WIDE GEOGRAPHICAL AREAS, AND ITS USE SHOULD BE FURTHER REFINED, EXPANDED, AND EVALUATED. (AUTHOR/LY). ERIC 4511A

*** FARKUHAR, J.A. * DEI ROSSI, J.A.

ALTERNATIVE TECHNOLOGIES FOR INFORMATION NETWORKS

SANTA MONICA, CALIFORNIA, RAND CORPORATION, DECEMBER 1969. 9P. RAND REPORT NO. P-4272. ERIC ED 038 156

*** BIOMEDICAL-INFORMATION-NETWORKS COST

THE PAPER CONCERNS SOME OF THE ECONOMIC CONSIDERATIONS INHERENT IN DESIGNING USER SERVICES THAT INCORPORATE VARIOUS COMMUNICATION SYSTEMS. IT DESCRIBES THREE SUCH SERVICES CONSIDERED IMPORTANT IN PROVIDING INFORMATION TO THE BIOMEDICAL COMMUNITY COMPRISED OF PRACTICING PHYSICIANS AND THOSE ENGAGED IN TEACHING AND RESEARCH, AS WELL AS OTHER PROFESSIONALS DIRECTLY INVOLVED IN BIOMEDICAL RESEARCH AND IN THE PRACTICE OF MEDICINE. FOLLOWING THIS DISCUSSION IS A BRIEF DESCRIPTION OF SOME TECHNOLOGICAL DEVELOPMENTS THAT MIGHT MAKE THESE OR SIMILAR SERVICES AVAILABLE IN LESS EXPENSIVE Ways, AS WELL AS SOME PROBLEM AREAS. (AUTHOR)
DEFINITIVE DIALING - NURSING DIAL-ACCESS

MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION, MARCH 1970. 61 P. ERIC ED 045 880

WISCONSIN-UNIV EXTENSION-UW CONTINUING-ED DIAL-ACCESS-LIBRARY EVALUATION-QUESTIONNAIRE COST WISCONSIN-REGIONAL-MEDICAL-PROGRAM

NURSING DIAL ACCESS, A TAPE LIBRARY AVAILABLE BY TELEPHONE TO PROFESSIONAL NURSES IN WISCONSIN, WAS DEVELOPED BY THE DEPARTMENT OF NURSING HEALTH SCIENCES UNIT, UNIVERSITY EXTENSION, AT THE UNIVERSITY OF WISCONSIN, UNDER A GRANT FROM THE WISCONSIN REGIONAL MEDICAL PROGRAM. THE PROGRAM, AVAILABLE ON AN AROUND-THE-CLOCK BASIS, PROVIDES SHORT TAPES ON A VARIETY OF NURSING AND MEDICAL TOPICS. THE LIBRARY PRESENTS CORE INFORMATION IN THE CATEGORIES, NURSING CARE EMERGENCY SITUATIONS, NEW PROCEDURES AND EQUIPMENT, RECENT DEVELOPMENTS IN NURSING, AND LEGAL ASPECTS IN NURSING. NURSING DIAL ACCESS AVERAGES 1,000 CALLS A MONTH. A SURVEY OF THE USERS INDICATED THAT 1) THE PROGRAM HAS BEEN FOUND TO BE AN APPROPRIATE WAY TO PROVIDE CERTAIN TYPES OF INFORMATION 2) NURSES HAVE ACCEPTED THIS INFORMATION RETRIEVAL SYSTEM AND 3) THE PROGRAM HAS BEEN SUCCESSFUL IN MEETING ITS PURPOSE - TO ASSIST NURSES OUTSIDE THE METROPOLITAN AREAS OF THE STATE. APPENDICES INCLUDE A BIBLIOGRAPHY OF TAPES, GUIDELINES FOR DEVELOPING DIAL ACCESS LIBRARIES, AND LISTS OF TAPES AVAILABLE TO STATES OTHER THAN WISCONSIN. (PT)

A NEW-ENGLAND LAND-GRA N NETWORK, A STUDY OF THE FEASIBILITY OF ESTABLISHING EDUCATIONAL INFORMATION LINKS BETWEEN THE SIX LAND-GRA N UNIVERSITIES IN NEW-ENGLAND

DURHAM, N.H., NEW ENGLAND CENTER FOR CONTINUING EDUCATION (1968) 69 P. ERIC ED 031 685

INTERUNIVERSITY-COOPERATION REGIONAL-NETWORK EEN RADIO TV COMPUTER

ART BY TELEPHONE, DESIGN AND EVALUATION

LAS VEGAS, NEVADA, CLARK COUNTY SCHOOL DISTRICT, 1970. 31P. ERIC ED 044 222

THE ART-BY-TELEPHONE PROGRAM, FUNDED UNDER TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT, INVOLVED RURAL HIGH SCHOOLS IN NEVADA, IDAHO, AND UTAH. THE PROGRAM WAS DESIGNED TO OFFER ART INSTRUCTION FROM A MASTER TEACHER TO STUDENTS ENROLLED IN HIGH SCHOOLS WITH LIMITED FINANCIAL RESOURCES. INSTRUCTION IN ART WAS PROVIDED BY JOINING A NUMBER OF WIDELY SEPARATED SCHOOLS INTO A CONFERENCE SITUATION IN WHICH ALL UNITS OF THE SYSTEM, INCLUDING THE INSTRUCTOR, WERE SERVED BY A COMMON 2-WAY-COMMUNICATION, AMPLIFIED TELEPHONE SERVICE. THE NECESSARY TELEPHONE LINES WERE LACED AT A SPECIAL CONFERENCE RATE FOR 50 MINUTES PER WEEK. IN ACCORDANCE WITH A PREARRANGED SCHEDULE, THE TELEPHONE CONFERENCE OPERATOR INITIATED THE NECESSARY LINE SIGNALS TO BRING ALL PARTICIPATING SCHOOLS AND MASTER TEACHER INTO A JOINED, OPEN-LINE COMMUNICATION SETTING. EACH SCHOOL WAS EQUIPPED WITH A TELEPHONE AMPLIFIED RECEIVER AND TRANSMITTER SO THAT STUDENTS IN ANY AREA OF THEIR CLASSROOM COULD HEAR ALL CONVERSATION AND COULD ALSO INITIATE ORAL RESPONSES. IN ADDITION TO THE AMPLIFIED TELEPHONE EQUIPMENT, EACH PARTICIPATING SCHOOL WAS EQUIPPED WITH AN OVERHEAD PROJECTOR, 35-MM SLIDE PROJECTOR, TAPE RECORDER, AND PROJECTION SCREEN. THE PROGRAM OPERATED FOR 2 YEARS AND WAS CONSIDERED A PIONEERING SUCCESS FOR THE WESTERN STATES SMALL SCHOOLS PROJECT. EIGHT APPENDICES ARE INCLUDED. (AL). SEE 4022-3 AND 4715. ERIC


DURHAM, NEW HAMPSHIRE UNIVERSITY, JULY 1970. 40P. ERIC ED 044 897

GE'S HOOKUP FOR BUSINESS CONFEREES

BUSINESS WEEK 2183, P24+6, JULY 11, 1970

THIS ARTICLE REVEALS GE'S PLANS TO BEGIN OPERATING A CLOSED CIRCUIT NATIONAL CONFERENCE TELEVISION NETWORK BY OCTOBER OF 1970. GE PLANS TO MAKE THIS 'COMMAND PERFORMANCE NETWORK' ECONOMICALLY SOUND BY LEASING TELEPHONE LINES FOR A SET PERIOD, AS IS DONE BY COMPANIES WHICH LEASE COMPUTER TIME. A TV PROJECTOR, RATHER THAN TYPICAL RECEIVER, WILL BE USED. CHRISTOPHER S. CARVER, THE NETWORK'S MARKETING MANAGER, SAYS THE SYSTEM'S MARKET WILL BE THE NATION'S 1,000 LARGEST CORPORATIONS. GE IS NEGOTIATING WITH SHERATON HOTELS CONCERNING PLACEMENT OF THE FACILITIES. GE'S MAIN COMPETITOR WILL BE MANAGEMENT TELEVISION SYSTEMS, INC. NEWS ITEM. FK

MCCURDY, PAT

4608C

4600C
In January of 1970, a conference/workshop was held at Harrison House in Glen Cove, New York to explore ways of utilizing communications technology. Sponsored by Technology Communications, Inc. (TCI), the conference was a study in innovation as the TCI staff members sought ways to create the best environment for individual and group discussion. Many formats were tried, but closed circuit TV was so effective that theatre-style meetings were abandoned. Discussion leaders remained the only ones listening to speakers in person. The author states that feedback was generally favorable. He also notes that a minority of participants were unimpressed with TV. In a postmortem interview, TCI President Bill Maass referred to TCI's staff as 'Environment Creators,' while Bob Calhorn, Executive Director, suggested that TCI's main goal was participation.

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In September 1971, the Engineering School of the University of Pennsylvania will begin using ITFS to broadcast graduate level credit courses throughout the Delaware Valley. Aimed at students employed in business and industry, the ITFS signals will be transmitted to sites in which home receivers are equipped with special adapters. A regular class, rather than a staged production, will be televised. Students at receiving sites will participate in a classroom situation by directing questions or comments to the professor via an FM-radio talk back. Dr. A. Norman Hixson, the system's director, notes that two channels will be used to air courses from 9 a.m. to 4 p.m., Monday through Friday. Two more channels will be added in the future.

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The Catholic Archdiocese of Brooklyn, with the technical assistance of IBM, is conducting an educational experiment using a combination of TV, computer, and telephone to disseminate the videotape lecture series, 'The World of Computers.' Once a week, 70 teachers receive half-hour individualized lectures via TV. After each lecture a multiple choice quiz is given and the teachers answer using a twelve-button touch tone phone. The computer is programmed to evaluate the answers and to offer appropriate review lessons immediately. The progress of 'Computer Teachers' is being compared with 'Conventional Method' control groups. The results are not reported.
BETTER VIDEO CONFERENCES

MITCHELL, D.

BELL LABORATORIES RLCHWD 40, 1, P19-22, JAN 1970

HOLMEDEL NEW-JERSEY MURRAY-HILL CCTV VISUAL-AIDS AUTOMATIC-SWITCHING BELL-LABS

THE BELL LABORATORIES ARE EXPERIMENTING WITH A VIDEO SYSTEM WHICH WOULD COMPLEMENT TELECONFERENCES BY PROVIDING VISUAL CONTACT AMONG PARTICIPANTS. CURRENTLY CONNECTING BELL LABORATORIES IN MURRAY HILL AND HOLMEDEL, NEW JERSEY, THE NEW SYSTEM CAN ACCOMMODATE LARGE GROUPS WITH A NATURAL ATMOSPHERE NOT PREVIOUSLY ATTAINABLE. THE VIDEO SYSTEM USES A FULL-BAND (525-LINE, 4.3-MHZ), TWO-WAY TV CIRCUIT. THREE CAMERAS SPAN AN ARC OF PARTICIPANTS, AND AUTOMATIC SWITCHING CONTROLS, ACTUATED BY VOICE SOUNDS, TURN ON THE CAMERA WHICH COVERS THE PERSON WHO IS SPEAKING. A FOURTH CAMERA IS LOCATED OVERHEAD AND USES A ZOOM LENS TO FOCUS ON DRAWINGS, PRINTED MATERIALS AND OTHER VISUAL AIDS, WHILE A FIFTH CAMERA OVERVIEWS THE ENTIRE GROUP. THE CONFERENCE LEADER MUST CHOOSE BETWEEN FOUR MODES OF OPERATION, EACH OF WHICH PRESENT VARIATIONS IN THE UNIT'S AUTOMATIC SWITCHING SYSTEM. A COMPLEMENTARY AUDIO SYSTEM IS ALSO DESCRIBED IN THE ARTICLE, WHICH INCLUDES TWO DETAILED DIAGRAMS. FK
TEACHING BY TELEPHONE

BELL LABORATORY RECORD 48,1, P23-5, JAN 1970

NEW-YORK-CITY ILLINOIS PRIMARY-ED SECONDARY-ED MATHEMATICS DIAL-ACCESS CAI
COMPUTER-TELEPHONE-LINK 4030-MULTIPLE-DATA-SET HOME-STUDY

EDUCATORS HAVE RECENTLY BECOME INTERESTED IN THE TOUCH-TONE TELEPHONE AS AN EDUCATIONAL TOOL. AVAILABILITY, SIMPLICITY AND RELATIVE LOW COST ARE ITS MAJOR ATTRACTIONS. THE NEW YORK CITY BOARD OF EDUCATION IS STUDYING THE 'DIAL-A-DRILL' SYSTEM WHICH CAN BRING ARITHMETIC INTO THE HOMES OF UP TO 2000 SECOND TO SIXTH GRADE STUDENTS. THIS SYSTEM CAN BE FURTHER IMPROVED BY INCLUDING A 403U MULTIPLE DATA SET SO THAT CALLS MAY BE ORIGINATED CENTRALLY AS WELL AS FROM OUTLYING AREAS. THE TOUCH-TONE SYSTEM USED BY THE OAK PARK-RIVER FOREST HIGH SCHOOL IS A RANDOM ACCESS RETRIEVAL SYSTEM WHICH INCLUDES 224 TAPES ON VARIED SUBJECTS. THE HIGH SCHOOL STUDENTS MAY CHOOSE ANY OF THE 6-15 MINUTE TAPES FROM ONE OF THE 75 CARRELS LOCATED THROUGHOUT THE SCHOOL. CALLS FROM THE STUDENT'S HOMES ARE HANDLED THROUGH THE 4030 COMPUTER LOCATED IN THE SCHOOL INFORMATION CENTER.

BUSY MD'S ATTEND CLASS VIA DIAL-A-LECTURE TV

ELECTRO TECHNOLOGY 84,5, P32-3, NOV 1969

A DIAL ACCESS SYSTEM (MEDICAL LECTURE BANK) HAS BEEN INSTALLED AT THE UNIVERSITY OF MISSOURI MEDICAL CENTER, COLUMBIA, MISSOURI. THE SYSTEM INCLUDES 500 AUDIO TAPES THAT ARE AVAILABLE TO PHYSICIANS 24 HOURS A DAY, SEVEN DAYS A WEEK. THIS SYSTEM IS FULLY AUTOMATIC, SINCE SPECIFIC PHONE NUMBERS ARE ASSIGNED TO SPECIFIC RECORDINGS. DR. CHARLES SARGENT, ASSISTANT DIRECTOR OF THE CENTER'S COMPUTERIZED PROGRAM, IS CONDUCTING EVALUATIONS OF THE USES, USERS, AND EFFECTIVENESS OF THE PRESENT SYSTEM. HE HOPES EVENTUALLY TO ENLARGE THE TAPE LIBRARY AND EXPAND SERVICES TO THE GENERAL PUBLIC. THE TITLE IS MISLEADING - THE ARTICLE DESCRIBES A TELEPHONE SYSTEM, NOT A TV SYSTEM.

THE CLASSROOM COMES TO THE ENGINEER

MACHINE DESIGN 42,16, P117-21, JUNE 25, 1970

MANY UNIVERSITIES AND ORGANIZATIONS SPONSORED BY INDUSTRY SUCH AS THE ASSOCIATION FOR CONTINUING EDUCATION (ACE) ARE USING COMMUNICATIONS TECHNOLOGY TO BRING SIMULATED CLASSROOM TEACHING TO THE WORKING ENGINEER. COMPANY EMPLOYEES ENROLL IN UNIVERSITY COURSES FOR CREDIT OR FOR
THE WORKING ENGINEER. COMPANY EMPLOYEES ENROLL IN UNIVERSITY COURSES FOR CREDIT OR FOR UPDATING THEIR KNOWLEDGE AND RECEIVE REMOTE INSTRUCTION AT THEIR PLACE OF WORK. ALTHOUGH TELEVISION SEEMS TO BE THE MOST EFFECTIVE METHOD AVAILABLE, SOME PROJECTS INVOLVE VIDEOTAPE MACHINES OR 'ELECTRONIC BLACKBOARDS.' IN ALL CASES, 'TALKBACK IS AN ESSENTIAL PART OF THE SYSTEM.' THE MOST PROMISING AND LEAST COSTLY FEEDBACK METHOD SO FAR DEvised UTILIZES FM RADIO. THE MANY NETWORKS DESCRIBED IN THIS ARTICLE ARE USUALLY FINANCED BY THE PARTICIPATING COMPANIES, SINCE THEY HAVE A VESTED INTEREST IN ENCOURAGING CONTINUING EDUCATION FOR THEIR EMPLOYEES AND THEY SAVE MANY MAN-HOURS PREVIOUSLY WASTED IN TRAVEL. IN THE FUTURE, CATV AND SATELLITE SYSTEMS MAY HAVE CONSIDERABLE IMPACT ON THE DEVELOPMENT OF COLLEGE/INDUSTRY HOOKUPS.

THE STANFORD INSTRUCTIONAL TELEVISION NETWORK
IEEE SPECTRUM 7, 5, PT3-80, MAY 1970

STANFORD’S FOUR-CHANNEL INSTRUCTIONAL TELEVISION NETWORK WAS ESTABLISHED IN 1969 MAINLY TO PROVIDE PART-TIME GRADUATE STUDENTS IN ENGINEERING WITH REMOTE INSTRUCTION AT THEIR PLACE OF WORK. PARTICIPATING COMPANIES PAY FOR THE TELECASTS, BUT COSTS ARE SMALL RELATIVE TO THOSE PREVIOUSLY INCURRED UNDER A DAY-RELEASE SYSTEM. FURTHERMORE, THE ASSOCIATION FOR CONTINUING EDUCATION (ACE), CONTROLLED BY THOSE ORGANIZATIONS INVOLVED IN THE NETWORK, IS ABLE TO DISSEMINATE MULTIFARIOUS MATERIAL AT THOSE TIMES WHEN REGULAR COURSES ARE NOT BEING HELD. TELEVISION SIGNALS ARE BROADCAST USING THE ALLOWED MAXIMUM OF 10 WATTS OF POWER ON THE ITFS BAND RESERVED FOR INSTRUCTIONAL PURPOSES BY THE FCC. TO PROVIDE FOR CONTINUAL FEEDBACK, STANFORD SUBMITTED A PROPOSAL TO THE FCC, WHICH RESULTED IN A RULE-MAKING DECISION PERMITTING 'FM RADIO TALK-BACK IN THE 4-MHZ RANGE AT THE UPPER END OF THE ITFS BAND (2686-2690 MHZ) ... FOR EACH OF THE CHANNELS. ALTHOUGH THE AUTHORS LAUD THE APPARENT SUCCESS OF THEIR NETWORK, THEY MAINTAIN THAT REMOTE INSTRUCTION SHOULD AUGMENT RATHER THAN REPLACE INSTRUCTION AND PERSONAL CONTACT ON THE CAMPUS.

CONFERENCE CALLS BECOME FUN
BUSINESS WEEK, P101, DEC 5, 1970

TELESESSION CO., RECENTLY ESTABLISHED IN NEW YORK CITY BY RON RICHARDS, SETS UP NIGHTLY TELEPHONE DISCUSSION GROUPS. FOR A CHARGE OF 2 DOLLARS A PHONE SESSION, PARTICIPANTS MAY TALK WITH OTHER TELESESSION PARTICIPANTS ABOUT COMMON INTERESTS. SO FAR, 200 GROUP DISCUSSIONS HAVE TAKEN PLACE ON A VARIETY OF SUBJECTS. THE LARGEST SESSION INCLUDED 22 PEOPLE. 'GEORGE SILVERMAN, A PSYCHOLOGIST WHO SERVES AS THE COMPANY’S DIRECTOR OF RESEARCH AND DEVELOPMENT, SAYS THE LACK OF VISUAL CONTACT MEANS PEOPLE LISTEN MORE CAREFULLY TO OTHERS, WAIT THEIR TURN TO SPEAK, AND STRESS IDEAS RATHER THAN PERSONALITIES.' NEWS ITEM.
EDITOR AND PUBLISHER 102.49, P18, DEC 6, 1969

Editors go to class via telephone hookup

Classrooms at Sacramento State, Iowa State and the University of Nevada were hooked up with four newspaper editors for a telelecture on editorials and editorial policy. The journalism students were supplied with printed materials before the lecture. Equipment included telephones with speakers and microphones for asking questions of the lecturers. Another 'conference call telelecture' is planned for January 1970. News Item. See 4650C. CM

Another 'conference call telelecture experiment between three colleges has been expanded to a monthly series. Journalism students at Sacramento State, Iowa State and the University of Nevada will benefit from the experiences of editors and newspapermen from all over the country. The 90-minute telelecture was conducted over a conference telephone and loudspeaker hookup. The simplicity and relative low cost of this hookup make this system practical for educational uses. Dean Robertson of Sacramento State expects the minor technical problems which were previously experienced to be ironed out by the next telelecture. News Item. See 4649C. CM
FUTURE REGULATORY POLICY ASPECTS OF THE TELEPHONE INDUSTRY
PUBLIC UTILITIES FORTNIGHTLY 82, 12, P33-9, DEC 5, 1968

MONAGHAN DISCUSSES SOME MAJOR PROBLEMS OF REGULATION THAT MUST BE CONFRONTED BEFORE "...THE TELEPHONE INDUSTRY MAY INDEED ADVANCE INTO A TELECOMMUNICATIONS SPACE AGE." SHOULD ALL U.S. INTERNATIONAL RECORD CARRIERS BE MERGED AND SUBSTITUTED FOR VIABLE COMPETITION. WHAT ROLE SHOULD SATELLITES PLAY IN DOMESTIC COMMUNICATIONS AND WHO SHOULD OWN AND OPERATE THEM. SHOULD COMPANY RESTRICTIONS ON THE USE OF FOREIGN ATTACHMENTS BE RELAXED. IF SO, CAN THE NECESSARY COMPATABILITY BE MAINTAINED BY USING BUFFERS PROVIDED BY THE TELEPHONE COMPANIES. THE AUTHOR STRESSES THE NEED FOR REGULATORY AGENCIES TO VIEW THE NATIONAL NETWORK AS A SINGLE SYSTEM WHICH PROVIDES MILLIONS OF CONSUMERS WITH QUALITY, CAPACITY, AND ECONOMY IN COMMUNICATIONS. HE QUOTES BELL ON THE FACTORS WHICH "...MAKE A DOMESTIC SATELLITE SYSTEM APPEAR SOMewhat LESS DESIRABLE THAN HAD PREVIOUSLY BEEN ASSUMED." INDEED, COAXIAL SYSTEMS ARE IMPROVING Apace. PRIVATE ENTERPRISE AND GOVERNMENT REGULATION HAVE TOGETHER CREATED THE FINEST COMMUNICATION NETWORK IN THE WORLD. "GOVERNMENT POLICY SHOULD BE CONDUCIVE TO A REGULATORY CLIMATE THAT WILL ENABLE THIS TO CONTINUE TO BE SO." WH

VOICE PICTURE HOOKUPS CONNECT TWO COMPANIES

EXPERTS AT THE BOEING AND LOCKHEED COMPANIES IN SIX WIDESPREAD CITIES HAVE BEEN HOLDING MEETINGS VIA A TELEPHONE NETWORK CALLED TELECONFERENCE. SUCH JOINT MEETINGS HAVE BEEN ESSENTIAL EVER SINCE NASA AWARDED THE TWO COMPANIES A JOINT CONTRACT TO DESIGN THE APOLLO SPACE-SHUTTLE SYSTEM. REAR PROJECTION SCREENS FED BY LONG DISTANCE XEROGRAPHY ARE UTILIZED DURING THE MEETINGS.
PICTUREPHONE SERVICE, A NEW WAY OF COMMUNICATING

VOLTA REVIEW 72, P438-9, OCT 1970

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**4686C**

***KRUCK, DONALD & TVERSKY, ARNOLD D.*

CLASSROOM COMMUNICATION, TELECTURE

AUDIOVISUAL INSTRUCTION 16,2, P21-2, FEB 1971

// DOVER NEW-JERSEY DOVER-PUBLIC-SCHOOLS SECONDARY-ED COURSE-ENRICHMENT INSERVICE-ED HOMEBOUND-CHILDREN EVALUATION-STUDENT-REACTION LEARNING-CENTER COST

SINCE 1969, THE DOVER (NEW JERSEY) PUBLIC SCHOOLS HAVE USED TELELECTURES TO BRING RESOURCE PEOPLE INTO THE CLASSROOM. FOLLOWING A SUCCESSFUL DEMONSTRATION, TELELECTURES HAVE ALLOWED HIGH SCHOOL STUDENTS TO DISCUSS VARIOUS TOPICS WITH FAMOUS PERSONALITIES, PROMINENT NATIONAL FIGURES AND LOCAL AUTHORITIES VIA A SINGLE, AMPLIFIED TELEPHONE CALL. TO ASSURE THE SMOOTH OPERATION OF DOVER'S TELELECTURE PROGRAM, MANY STEPS HAVE BEEN TAKEN, INCLUDING THE DEVELOPMENT OF A RESOURCE FILE AND NUMEROUS STANDARDIZED PROCEDURES. STUDENT INTEREST HAS BEEN STRONG AND STUDENT PARTICIPATION IN PLANNING EFFORTS HAS BEEN ENCOURAGED. IN PARTICULAR, STUDENT REACTION HAS BEEN USED AS AN EVALUATIVE TOOL. TELELECTURE COSTS INCLUDE A 35 DOLLAR PER UNIT INSTALLATION CHARGE AND A 25 DOLLAR SERVICE CHARGE PER UNIT PER MONTH, PLUS THE LONG DISTANCE TELEPHONE CHARGES. THE AUTHORS PREDICT THAT TELELECTURES WILL PLAY A VITAL ROLE IN DOVER'S CURRICULUM DURING THE 1970'S.

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**4692C**

***MCKAY, GERALD R.*

TELETEACHING, THE PARTY-LINE REVIVED

AUDIOVISUAL INSTRUCTION 16,5, P85-6, MAY 1971

// MINNESOTA-UNIV EXTENSION AGRICULTURE PRESENTATION-SKILLS MODERATOR VISUAL-AIDS COST

THE AUTHOR DESCRIBES AND MAKES CONCLUSIONS REGARDING A SERIES OF 75 TELEPHONE MEETINGS SPONSORED BY THE UNIVERSITY OF MINNESOTA EXTENSION DURING THE WINTER AND SPRING OF 1970-71. ACCORDING TO THE AUTHOR, THE SERIES BOTH PROVIDED INSIGHT INTO HOW TO UTILIZE TELETEACHING EFFECTIVELY AND PROVED TELETEACHING TO BE A 'USEFUL' ALTERNATIVE WHEN REGULAR TEACHING SITUATIONS ARE IMPOSSIBLE. COSTS OF THE CONFERENCE CALLS INCLUDE A 25 DOLLAR PER MONTH INSTALLATION FEE, A 35 DOLLAR PER MONTH RENTAL CHARGE AND A LINE CHARGE OF APPROXIMATELY 15 DOLLARS PER HOUR AND 45 MINUTE MEETING. IF PROGRAMMING WERE SCHEDULED FOR A MAJORITY OF THE 24 HOUR DAY, A LEASED LINE COULD LOWER THE COST PER PROGRAM. THE AUTHOR DESCRIBES BOTH THE ORIGINATING STUDIO AND THE RECEIVING STATIONS, AND ALSO OFFERS SUGGESTIONS FOR FUTURE MEETINGS CONCERNING 1) THE IMPORTANCE OF ADOPTING A PRESENTATION TO A SPECIFIC AUDIENCE 2) THE LENGTH OF PRESENTATIONS 3) VISUAL AIDS AND 4) TRAINING THE PERSON IN CHARGE OF EACH RECEIVING GROUP. AN EVALUATIVE SURVEY WAS CONDUCTED FOLLOWING THE SERIES IN ORDER TO DETERMINE RECIPIENT REACTION.
This article is based on an introductory paper for a series of other papers on 'University Instructional TV Networks, What They Mean to Industry' presented at the 1969 Western Electronic Show and Convention. It is an overview of advances over the past decade in linking universities with each other and industry by radio waves and hard wire lines and projects what is likely to occur during the '70's. The author feels that there is a great need for in-service educational programs designed for the updating and upgrading of engineers in industry. Teleconferencing provides a means of implementing these in-service programs. The author feels that '...in essentially every case, for a well conceived and well thought out plan, industry not only should but will pay the full capital and operating costs of the system.'

This brochure, prepared by the Victor Comptometer Corporation, describes and lists the advantages of the Victor Electrowriter Remote Blackboard (VERB). According to Victor, VERB '...is an effective, economical remote teaching and training system, which uses an ordinary projection screen for a 'blackboard' and the telephone for voice transmission.' Among the advantages of the system is two-way communication. In conjunction with a telephone telelecture hookup, both student and teacher, though geographically distant, can converse. The systems are flexible - wherever there are telephone lines, the VERB equipment can be used. VERB is also economical because it eliminates the need for costly travel and expense. Finally, the message is received on a continuous roll of paper or acetate film, and either form of hard copy may be easily stored or reproduced. Some of the current uses of the VERB systems which are particularly useful and economical are course enrichment, specialized teaching, in-service training and continuing education. The brochure also includes pictures and drawings of the units as well as items 4695-4700 which are listed separately.
THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB) IS A NEW TOOL FOR THOSE WHO PLAN MEETINGS. VERB IS AN OVERHEAD PROJECTOR (DEVELOPED BY BELL TELEPHONE LABS) THAT PUTS AN IMAGE ON THE SCREEN THAT IS TRANSMITTED OVER TELEPHONE LINES FROM ANYWHERE. THE IMAGE HAS TO BE SOMETHING THAT IS WRITTEN OR DRAWN ON AN "ELECTROWRITER". HERE, THE AUTHOR DESCRIBES HOW THE VERB SYSTEM OPERATES AND SOME POSSIBLE BUSINESS APPLICATIONS OF THE SYSTEM WHEN USED IN CONJUNCTION WITH AN AMPHIFIED TELEPHONE TEALLECTURE SERVICE DEVELOPED BY THE BELL SYSTEM. THE ELECTROWRITER CAN BE USED TO SUPPLEMENT A LECTURE GRAPHICALLY AND IT CAN TRANSMIT ANYTHING THE USER CAN DRAW OR WRITE. THE SYSTEM DOES NOT TRANSMIT PHOTOGRAPHS OR PRINTED COPY. AN EXPERIMENT LINKING SEVEN CITIES IN IOWA WAS CONDUCTED IN WHICH 500 SCHOOL TEACHERS WERE INSTRUCTED IN HOW TO TEACH NEW MATH. DURING THE SAME EVENING ANOTHER PRESENTATION WAS MADE TO 1800 PEOPLE FROM CEDAR FALLS, IOWA USING THE SAME HOOKUP. THE SYSTEM CAN BE USED ON REGULAR TELEPHONE LINES TO REACH WIDELY SCATTERED REMOTE AUDIENCES. COST IS CONSIDERABLY LESS THAN TRAVEL TIME AND EXPENSE NECESSARY TO BRING THE LECTURER TO THE SCHOOL.

FRENCH IS TAUGHT OVER VERB

CARBON COUNTY INSTRUCTIONAL CENTER 2, I., PI., JAN 31, 1968

"THE CARBON COUNTY COORDINATED INSTRUCTIONAL CENTER (SINCLAIR, WYOMING) IS OPERATED UNDER A TITLE III GRANT, ESEA, AND IS IN ITS SECOND YEAR OF OPERATION. ACTIVITIES OF THE PROJECT INCLUDE THE INSTRUCTIONAL MATERIALS CENTER AND CURRICULUM IMPROVEMENT THROUGH THE USE OF THE VICTOR ELECTROWRITER REMOTE BLACKBOARD, (VERB)." ONE OF THE CLASSES BEING TAUGHT UTILIZING VERB IS FRENCH I. IT IS BEING TRANSMITTED FROM SARATOGA TO ENCAMPMENT AND HANNA, WYOMING. THE TEACHER OF THIS COURSE FEELS THAT HER STUDENTS HAVE MAINTAINED THEIR INITIAL ENTHUSIASM FOR THE VERB COURSE AND ARE ACHIEVING ON AN EQUAL LEVEL WITH THE REGULAR CLASSROOM FRENCH STUDENTS. SHE BELIEVES THAT BECAUSE OF THE EXTRA CLARITY REQUIRED OF HER BY THE SYSTEM, THAT HER VERB STUDENTS UNDERSTAND HER BETTER THAN HER CLASSROOM STUDENTS. STUDENTS VALUE THE CONTACT WITH OTHERS FROM DIFFERENT SCHOOLS AND WERE GLAD TO HAVE A COURSE WHICH WOULD NOT BE AVAILABLE TO THEM WITHOUT VERB."
AN INSERVICE COURSE ON CHEMISTRY WAS PRESENTED TO CARBON COUNTY TEACHERS UNDER THE SPONSORSHIP OF THE NATIONAL SCIENCE FOUNDATION WITH COOPERATION FROM THE UNIVERSITY OF WYOMING. VERB IS BEING UTILIZED BY DR. JOHN MAUSER OF THE CHEMISTRY DEPARTMENT OF THE UNIVERSITY OF WYOMING TO OFFER A SIX-CREDIT GRADUATE COURSE. SIX SCHOOLS, SARATOGA, ENCAMPMENT, BAGGS, RAWLINS, HANNA, AND MEDICINE BOW, ARE PARTICIPATING IN THE SUCCESSFUL PROGRAM. MINOR TECHNICAL DIFFICULTIES WERE FAR OUTWEIGHTED BY THE EXCELLENT COURSE AND INSTRUCTOR.

JAMES BOYLE, HEAD OF THE UNIVERSITY OF WYOMING ART DEPARTMENT, TAUGHT ART HISTORY TO ALL CARBON COUNTY SCHOOLS USING THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB). THE COURSE HAS SERVED AS AN ENRICHING EXPERIENCE FOR HIGH SCHOOL STUDENTS AND ADULTS IN A CULTURALLY DEPRIVED AREA OF WYOMING.

THE CONSERVATION EDUCATION IMPROVEMENT PROJECT IS A PILOT STUDY TO IMPROVE THE PRESENTATION OF CONSERVATION INSTRUCTION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL CURRICULUM. THE PROJECT IS CURRENTLY BEING DEVELOPED UNDER THE DIRECTION OF DR. KENNETH DIEM AND HOWARD HENNEBRY OF THE UNIVERSITY OF WYOMING. COURSE UNITS WERE TRANSMITTED FROM THE UNIVERSITY OF WYOMING VIA THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB) AND OBSERVED CAREFULLY FOR TECHNICAL AND CONTENT QUALITY.
TEACHERS EARN GRADUATE CREDIT VIA VERB

CARBON COUNTY INSTRUCTIONAL CENTER 2.1 P2 JAN 31 1968

// WYOMING-UNIV CCCIC TEACHER-ED GRADUATE-ED PROBLEM-SOLVING VISUAL-AIDS ELECTROWRITER

THIS APPLICATION OF THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB) PROVIDED 23 CARBON COUNTY, WYOMING TEACHERS WITH TWO SEMESTER HOURS OF GRADUATE CREDIT IN IMPROVEMENT IN INSTRUCTION IN ELEMENTARY SCIENCE. THE COURSE WAS TRANSMITTED TO THE TEACHERS' RESPECTIVE SCHOOLS FROM WYOMING UNIVERSITY. THE COURSE WAS TAUGHT BY THE PROBLEM-SOLVING APPROACH. IN ADDITION TO 11 TELECONFERENCES, FIVE FACE-TO-FACE MEETINGS WERE HELD TO GAIN PERSONAL CONTACT, TO EXCHANGE VISUAL AIDS AND TO EXPERIMENT WITH THE EQUIPMENT.

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4701C

*** AHMAD, BASHIR

PRELIMINARY REPORT ON THE SURVEY CARRIED OUT FOR EVALUATING THE ELECTRO-WRITER COURSE (EWC) OFFERED BY THE UW EXTENSION DEPARTMENT OF ENGINEERING

MIMEU. 14P. RECEIVED FROM DR. JOHN KLUS, UNIVERSITY EXTENSION, UNIVERSITY OF WISCONSIN

// WISCONSIN-UNIV CONTINUING-ED INDUSTRY-UNIVERSITY EVALUATION ETN-SCA ELECTROWRITER

MR. AHMAD REPORTS EARLY ATTEMPTS TO EVALUATE THE FIRST (1969) ELECTROWRITER COURSE IN ELECTRICAL ENGINEERING OFFERED THROUGH THE ETN/SCA NETWORK BY UNIVERSITY EXTENSION OF THE UNIVERSITY OF WISCONSIN-MADISON. THIS COURSE WAS AN EXPERIMENT IN PROVIDING INSTRUCTION IN THE FIELD'S LATEST DEVELOPMENTS TO ENGINEERS IN INDUSTRY AND INSTITUTIONS DISTANT FROM MADISON. EVALUATION WAS MADE ON THE BASIS OF RESPONSES TO A QUESTIONNAIRE SENT TO THE 20 COURSE PARTICIPANTS. ELEVEN STUDENTS REPLIED. THE QUESTIONNAIRE IS INCLUDED AND THE COMPOSITE RESPONSE TO EACH QUESTION IS DESCRIBED IN A PARAGRAPH OR TWO EACH. A LIST OF PARTICIPANTS IS INCLUDED.

4707C

*** UNIVERSITY OF WISCONSIN, UNIVERSITY EXTENSION. HEALTH SCIENCES UNIT - UNIVERSITY OF WISCONSIN, MEDICAL SCHOOL

THE UNIVERSITY OF WISCONSIN 1971-1972 TELEPHONE RADIO CONFERENCES FOR PHYSICIANS, NURSES, PHARMACISTS AND ALLIED HEALTH PERSONNEL

MADISON, 1971. 10P

// MILWAUKEE-UNIV, MACHANICAL-ED MEDICAL-ED PARAMEDICAL-ED ETN-SCA PROGRAM-LISTING COST
THE DEVELOPMENT AND UTILIZATIONS OF SUBSIDIARY COMMUNICATIONS AUTHORIZATION

EDUCATIONAL BROADCASTING REVIEW 3:6, p34-43, DEC 1969

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PROGRAM EVALUATION CHECKLIST (PEC)

MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. EDUCATIONAL COMMUNICATIONS, 1970. 4P


PROGRAM EVALUATION CHECKLIST (PEC)

MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. EDUCATIONAL COMMUNICATIONS, 1968. 10P

THE 1968 PROGRAM EVALUATION CHECKLIST IS USED BY THE ETN-SCA SYSTEM AT THE UNIVERSITY OF WISCONSIN. (SEE 4711). THIS YEAR'S CHECKLIST CONTAINS 76 STATEMENTS TO WHICH PARTICIPANTS ARE ASKED TO RESPOND BY INDICATING THE DEGREE (OUT OF 4 CHOICES) TO WHICH EACH STATEMENT PERTAINS TO THE PROGRAM BEING EVALUATED. SOME GENERAL INFORMATION ABOUT THE PROGRAM PARTICIPANT WHO IS EVALUATING THE COURSE IS ALSO REQUESTED, AS IS A FINAL OVERALL PROGRAM RATING. FK
ART BY TELEPHONE

PACEMAKER 1, J. P2-3, JAN 1968

WESTERN-STATES-SMALL-SCHOOLS-PROJECT OREGON NEVADA IDAHO UTAH SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS MAILED-MATERIALS SLOW-SCAN-TV EVALUATION-SUBJECTIVE TITLE-III

THROUGH A TITLE-III GRANT, ELEVEN HIGH SCHOOLS IN IDAHO, NEVADA, UTAH AND OREGON HAVE JOINTLY SPONSORED AN 'ART-BY-TELEPHONE' COURSE. PREVIOUSLY, NINE OF THE ELEVEN SCHOOLS HAVE BEEN UNABLE TO PROVIDE ART COURSES. EACH SCHOOL IS LINKED TO EVERY OTHER SCHOOL BY A CONFERENCE CALL PLACED THROUGH THE TELEPHONE COMPANY. THE VOICES OF THE LECTURER AND OF THE STUDENTS ARE AMPLIFIED, MAKING QUESTION AND ANSWER EXCHANGES POSSIBLE. THE AUDIO LINK IS AUGMENTED BY AMPLIFIED, MAKING QUESTION AND ANSWER EXCHANGES POSSIBLE. THE AUDIO LINK IS AUGMENTED BY TRANSPARENCIES MAILED IN ADVANCE WHICH ARE SHOWN ON EITHER OVERHEAD OR 35MM PROJECTORS. ALL THE PARTICIPATING SCHOOLS RECORD EACH LECTURE FOR FUTURE USE. THE 'ART-BY-TELEPHONE' IDEA ORIGINATED FROM EXPERIMENTS WITH SLOW SCAN TV AND OTHER MEDIA USED IN EDUCATION. IT SEEMED APPARENT THAT WITH THE PROPER USE OF THE TELEPHONE AND VISUAL AIDS, LARGE AND REMOTE AUDIENCES COULD BE REACHED WITH A HIGH DEGREE OF TEACHER-PUPIL INTERACTION. IT IS FELT THAT ALMOST ANY SUBJECT CAN BE TAUGHT BY VISUALLY AUGMENTED TELECONFERENCING, BUT THAT SUCCESS IN ART INSTRUCTION, A SENSITIVE CURRICULUM, WOULD PROVE THE SUCCESS OF THE TECHNIQUE. THE PROGRAM IS CONSIDERED VERY SUCCESSFUL. SEE 4022-3 AND 4519. CM

*** PUZZOULI, DAVID A.

A STUDY OF TEACHING UNIVERSITY EXTENSION CLASSES BY TELE-LECTURE

MORGANTOWN, WEST VIRGINIA UNIVERSITY, 1970. 73P. ERIC ED 042 961


AFTER AN OVERVIEW OF LITERATURE ON TELE-LECTURE MODELS, A STUDY WAS MADE OF THE APPLICABILITY OF TEACHING UNIVERSITY EXTENSION COURSES BY TELE-LECTURE AND ELECTROWRITER AT WEST VIRGINIA UNIVERSITY, COURSES IN MINING ENGINEERING AND IN MODERN MATHEMATICS WERE GIVEN TO COLLEGE CLASSES (CONTROL GROUP) AND ALSO, USING TELE-LECTURE AND ELECTROWRITER, TO EXTENSION CLASSES IN BECKLEY, 265 MILES DISTANT (EXPERIMENTAL GROUP). COMPARATIVE ANALYSIS OF THE ACHIEVEMENT OF THE TWO GROUPS, USING THE T-TEST AND F RATIO, SHOWED THAT ACHIEVEMENT BY THE EXTENSION CLASSES WAS EQUAL TO, OR SIGNIFICANTLY GREATER THAN THAT OF STUDENTS IN THE ON-CAMPUS CLASSES. ANALYSIS OF EXTENSION STUDENT QUESTIONNAIRE RESPONSES USING THE MANN-WHITNEY U TEST, SUPPORTED THE THESIS THAT SUCCESS IN TELE-LECTURE TEACHING IS GREATER WHEN THE PROFESSOR LIMITS CONTINUOUS LECTURING TO 20-25 MINUTES, PROVIDES PRINTED MATERIAL, USES AUDIOVISUAL TECHNIQUES AS A SUPPLEMENT, MAKES A NUMBER OF PERSONAL VISITS (TWO OR THREE) TO THE CLASS, AND BASES THE CLASS ON PROBLEM SOLVING TECHNIQUES. (THE QUESTIONNAIRE IS INCLUDED.) (DM). ERIC
PHONE LECTURES LINK COMMUNITY HOSPITALS TO UNIVERSITY CENTERS

RESIDENT AND STAFF PHYSICIAN 168 P52-8, AUGUST 1970

THE REGIONAL MEDICAL PROGRAM FOR WESTERN NEW YORK IS OPERATING A SUCCESSFUL TWO-WAY TELEPHONE LECTURE NETWORK THAT LINKS 51 SMALL COMMUNITY HOSPITALS WITH THE HEALTH SCIENCE SCHOOLS OF THE STATE UNIVERSITY OF NEW YORK AT BUFFALO, ROSWELL PARK MEMORIAL INSTITUTE, AND OTHER MEDICAL CENTERS. Each hospital has set aside a special conference room wherein the telephone and speaker equipment are lodged. Each listening group has a moderator. Visual aids are mailed prior to each teleconference and are stored after the lecture in the hospital library for future use. The cost of the network, compared with a similar program of extending lectures aimed at helping health personnel update their medical knowledge, is low. Since the network relies on leased telephone lines, programs may be scheduled at any time and are usually left open ended to permit freer conversation. Programs vary from lectures on snake bite treatment to English language instruction for foreign doctors. JL

TELECONFERENCING, AN AnNOTATED Bibliography

HEARTLINE LINKS THE GP TO SPECIALIST

MEDICAL WORLD NEWS 8,15, P105, APRIL 14, 1967

OMAHA NEBRASKA CREIGHTON-UNIV REMOTE-DIAGNOSIS EKG IOWA MISSOURI WYOMING SOUTH-DAKOTA

DATAPHONE

THIS NEWS ITEM DESCRIBES THE USE OF A DATAPHONE SYSTEM FOR THE TRANSMISSION OF EKG'S FROM RURAL HOSPITALS TO THE CARDIAC LABORATORY OF THE CREIGHTON UNIVERSITY SCHOOL OF MEDICINE FOR REMOTE DIAGNOSIS. CARDIAC SPECIALISTS ATTEND THE RECEIVING CENTER 24 HOURS PER DAY AND OFFER EMERGENCY DIAGNOSIS VIA TELEPHONE TO THE HOSPITALS IN A FIVE STATE NETWORK. THE NETWORK INCLUDES NEBRASKA, MISSOURI, IOWA, WYOMING, AND SOUTH DAKOTA. ALTOGETHER, 29 INSTITUTIONS OR STATIONS AND TWO PRIVATE PHYSICIANS SEND IN AN AVERAGE OF 850 EKG'S A MONTH. PORTABLE UNITS ARE AVAILABLE AND MAY BE USED TO TAKE EKG'S AT THE PATIENT'S HOME. JL
THE RESTON, VIRGINIA, TEST OF THE MITRE CORPORATION'S INTERACTIVE TELEVISION SYSTEM

RESTON, VIRGINIA, MITRE CORPORATION, MAY 1971. 18P. MITRE REPORT MTP-352

CATV-TWO-WAY COMPUTER MICROWAVE INTERACTIVE-TELEVISION HOME-STUDY PRIMARY-ED MATHEMATICS
CAI DIAL-ACCESS-TV RESTON-TRANSMISSION-CO CONTINENTAL-TELEPHONE-CO

*THIS REPORT DESCRIBES HOW THE MITRE CORPORATION WILL COMBINE ITS TICCIT (TIME-SHARED, INTERACTIVE, COMPUTER-CONTROLLED, INFORMATION TELEVISION) SYSTEM WITH A LOW-COST HOME TERMINAL SYSTEM OF ITS OWN INVENTION TO DEMONSTRATE THE FEASIBILITY OF USING STANDARD TELEVISION RECEIVERS AS REMOTE (HOME) COMPUTER-DRIVEN DISPLAYS. THE COMPUTER IS LOCATED AT MITRE'S FACILITY IN MCLEAN, VIRGINIA. THE HOME TERMINALS ARE IN RESTON, VIRGINIA. THE SIGNALS WILL BE TRANSMITTED FROM MITRE TO RESTON BY MICROWAVE LINK AND THEN BY CABLE TV INTO THE VARIOUS RESTON HOMES. HOME TERMINAL USERS WILL COMMUNICATE WITH THE MITRE COMPUTER THROUGH THEIR 12-BUTTON PUSH-BUTTON PHONES. THE GOALS OF THE RESTON TEST ARE 1) TO DEMONSTRATE A WORKING ENGINEERING MODEL OF MITRE'S LOW-COST COMPUTER-DRIVEN DISPLAY IN THE HOME 2) TO DEMONSTRATE THE FEASIBILITY OF THE HARDWARE APPROACH TO OPERATORS OF CABLE TV SYSTEMS AND MANUFACTURERS OF VIDEO TAPE RECORDERS 3) TO INTEREST THE SOCIAL-SCIENCE COMMUNITY IN THE TREMENDOUS NEAR-TERM IMPACT THIS TYPE OF HARDWARE, COUPLED WITH STRONG SUPPORTING SOFTWARE, WILL HAVE ON THE LIVES OF PEOPLE. THE TABLE OF CONTENTS INCLUDES 1) INTRODUCTION, 2) DEMONSTRATION SYSTEM A) INTERACTIVE TELEVISION B) COMPUTER FACILITY C) COMMUNICATION LINK D) RESTON CABLE SYSTEM E) HOME TERMINAL F) COUPLER/DECODER. 3) DEMONSTRATION SOFTWARE A) INTENT B) CONTENT 1) EDUCATIONAL MATERIAL 2) COMMUNITY SERVICE MATERIAL. THE SOFTWARE CONTENT WILL BE COMPOSED OF INTERACTIVE EDUCATIONAL AND COMMUNITY SERVICE MATERIAL. THE EDUCATIONAL MATERIAL WILL OFFER TWO VARIETIES OF COMPUTER AIDED INSTRUCTION IN MATHEMATICS TO ELEMENTARY SCHOOL CHILDREN. THE COMMUNITY SERVICE MATERIAL IS ORIENTED TOWARDS THE INFORMATION NEEDS OF RESTON CITIZENS. INCLUDES PICTURES, ILLUSTRATIONS AND FLOW DIAGRAMS. LC

*** INTERMOUNTAIN REGIONAL MEDICAL PROGRAM

INTERMOUNTAIN REGIONAL MEDICAL PROGRAM, BROCHURE. RECEIVED FEB 1970

// IRMP UTAH IDAHO COLORADO NEVADA WYOMING MONTANA CONTINUING-ED MEDICAL-ED LEARNING-CENTER LIBRARY-ACCESS RADIO CCTV TV COMPUTER REMOTE-PATIENT-MONITORING

THE BROCHURE DESCRIBES THE INTERMOUNTAIN REGIONAL MEDICAL PROGRAM (IRMP) WHICH WAS ORGANIZED IN RESPONSE TO HEALTH CARE NEEDS IN A SPARSELY POPULATED MOUNTAINOUS AREA (UTAH, PORTIONS OF IDAHO, WYOMING, NEVADA, COLORADO, MONTANA). SEVERAL PILOT PROJECTS WERE INITIATED TO EXTEND AND IMPROVE HEALTH CARE RESOURCES THROUGH THE DEVELOPMENT OF A REGIONAL MEDICAL NETWORK. THE PILOT PROJECTS INCLUDE PROGRAMS TO TEST AND DEVELOP A LEARNING CENTER FOR CONTINUING EDUCATION, PATIENT CARE AND REMOTE SUPERVISION, AND FEEDBACK AND INFORMATION EXCHANGE FROM HEALTH PROFESSIONALS AND THEIR PATIENTS. THIS COMMUNICATION NETWORK DEPENDS UPON TWO-WAY RADIO, OPEN AND CLOSED CIRCUIT TELEVISION, ACCESS TO VIDEO AND AUDIO TAPE LIBRARIES, A MONTHLY NEWSLETTER, VISITING CONSULTANTS, TRAINING COURSES, AUTOMATED DATA COLLECTION, CONTINUOUSLY AVAILABLE LIBRARY AND TELEPHONE CONSULTATION AND INFORMATION SERVICE FOR CERTAIN DISEASES, ON-LINE COMPUTER MONITORING OF PHYSIOLOGICAL DATA AND OTHER MORE CONVENTIONAL MEANS OF INFORMATION EXCHANGE. INCLUDES CHARTS AND MAPS. CM
FORD FOUNDATION FUNDS HAVE MADE IT POSSIBLE FOR STEVENS COLLEGE (MISSOURI) TO BE AN INNOVATOR AND LEADER IN THE TELELECTURE TECHNIQUE. THE TELELECTURE SYSTEM WAS INSTITUTED BY JAMES A. BURKART IN 1951 TO INCREASE THE EFFECTIVENESS OF HIS SOCIAL STUDIES INSTRUCTION AT STEVENS COLLEGE. THIS TECHNIQUE CAUGHT ON, AND THE COLLEGE NOW USES THE SYSTEM TO ENGAGE SCIENTISTS, GOVERNMENT OFFICIALS, AUTHORS, AND OTHER SPECIALISTS SO THAT STUDENTS ARE ABLE TO ’...UNDERSTAND HOW THE FORMAL CLASS MATERIAL WAS RELATED TO THE WORLD IN WHICH THEY LIVED.’ THROUGH AMPLIFIED TELEPHONES AND VICTOR ELECTROWRITERS, STEVENS COLLEGE AND SIX OTHER COLLEGES (3 PREDOMINANTLY NEGRO) WILL DO A CO-OPERATIVE LECTURE SERIES WITHOUT FOUNDATION ASSISTANCE IN NOVEMBER 1966. THE RELATIVE LOW COST OF THE TECHNICAL SYSTEM GIVES STEVENS COLLEGE AND OTHER INSTITUTIONS WITH VERY LIMITED FUNDS AN OPPORTUNITY TO GIVE THEIR STUDENTS A MUCH HIGHER QUALITY OF EDUCATION THAN WOULD NORMALLY BE AVAILABLE. MOBILITY AND FLEXIBILITY PLUS AN ATMOSPHERE OF INFORMALITY ARE ALSO LISTED AS ADVANTAGES. EQUIPMENT COST IS 40 DOLLARS PER MONTH PER SCHOOL. LONG DISTANCE CHARGES FOR SIX OR SEVEN SCHOOLS FOR A 45-MINUTE LECTURE IN THE U.S. RANGES BETWEEN 120 AND 125 DOLLARS.
TELELECTURES

SPEECH TEACHER 18:1, P65-7, JAN 1969

THE AUTHORS DESCRIBE HISTORICALLY THE USE OF TELELECTURES IN HIGHER EDUCATION IN THE U.S. TELELECTURES WERE FIRST UTILIZED AT STEPHENS COLLEGE (MISSOURI) IN 1957 BY JAMES A. BURKHART, WHO USED THEM TO ALLOW HIS SOCIAL STUDIES STUDENTS TO SPEAK WITH AMERICAN POLITICAL LEADERS. IN 1960, MICHEL BEILES INTRODUCED THE USE OF TELELECTURES FOR LARGE AUDIENCES. THE USE OF TELELECTURES HAS SUBSEQUENTLY DEVELOPED EXTENSIVELY AND DIVERSELY. THE AUTHORS DESCRIBE EXAMPLES OF USING THE TECHNIQUE CROSS-CONTINENTALLY, FOR COURSE ENRICHMENT, IN PEACE CORPS TRAINING PROGRAMS AND AS A MEANS OF PROFESSOR SHARING BETWEEN COOPERATING INSTITUTIONS. CURRENTLY ENHANCED BY ELECTROWRITERS, TELELECTURES HAVE THE MAIN ADVANTAGES OF FLEXIBILITY, LOW COST AND CONVENIENCE. DESCRIPTIONS OF THESE POINTS ARE LARGELY QUOTED FROM BELL'S PAMPHLET, 'TELELECTURE,' SEE 4067. FK

SIU PROFS TEACH BY TELEWRITER

ILLINOIS EDUCATION 57:7, P292, MARCH 1969

FIVE HIGH SCHOOLS IN BARRY COUNTY, SOUTHWEST MISSOURI, HAVE BEEN LINKED FOR THREE YEARS IN THE TELEWRITER EDUCATIONAL SYSTEM. THIS NETWORK, WHICH IS SUPPORTED BY A FEDERAL GRANT AND COSTS APPROXIMATELY 20 DOLLARS PER HOUR OF USE, PROVIDES IMMEDIATE ACCESS TO A MULTIPLICITY OF DISTANT SPEAKERS. PRIMARY AMONG THESE DISTANT RESOURCES, ARE FACULTY MEMBERS OF THE BOTANY DEPARTMENT OF SOUTHERN ILLINOIS UNIVERSITY IN CARBONDALE, ILLINOIS. MICROPHONES RETURN STUDENT QUESTIONS TO THE LECTURER AND THE TELEWRITER OR 'BLACKBOARD BY WIRE' INSTANTLY TRANSMITS WHAT THE INSTRUCTOR WRITES TO THE VARIOUS REMOTE CLASSROOMS. APPLICATION OF THE TELELECTURE/ELECTROWRITER TECHNIQUE IS BEING CONSIDERED FOR SIU EXTENSION CLASSES THROUGHOUT SOUTHERN ILLINOIS. WH

DEFECTOR, OFFICIALS REPORT FIRSTHAND TO STUDENTS

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45:5, P26-7++, MAY 1966
The Delaware Seminars Experiment

General Practitioner 25, 4, P165-73, April 1962

By participating in a series of two-way radio conferences originating from Pennsylvania Hospital, a group of Delaware physicians significantly increased their knowledge of selected medical topics. Funded by various grants, the radio conferences began in October 1959. Volunteer physicians were tested before and after the conferences by matched examinations prepared with questions from the files of the National Board of Medical Examiners. Although foreign-educated physicians showed no improvement, physicians educated in the United States achieved higher scores after the conferences. Thus, the authors conclude that "...the two-way radio series is a reasonably effective tool available for the continuous education of practicing physicians." The article is very specific and gives detailed analyses of 1) examination preparation, 2) difficulty of questions, 3) volunteers, 4) group scores, and 5) interpretation of scores. The article also defends multiple-choice evaluations as opposed to more subjective evaluations which are described as clouded by opinion and personal prejudices. The conferences are similar to those sponsored by the Albany Medical College.

*** Foelman, Lily

Teaching Adults via Telelecture and Electrowriter (Victor Electronic Remote Blackboard)

Washington, Commission on Adult Jewish Education, B'Nai B'rith, 1967

*** Wallace, Ned

Experimental Voice Communications from Medical Base Station in Nicaragua to the University of Wisconsin, School of Medicine in Madison

Madison, University of Wisconsin, N.D. Mimeo. 3p

*** Krystal, H.

Postgraduate Teaching in Psychiatry Combining TV and FM Radio with Seminars

Psychosomatics 3, P188-92, May-June 1962
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*** NELSCN, WILLIAM P. (EDITOR) • WOOLSEY, FRANK M., JR. (EDITOR)

TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION

NEW YORK STATE JOURNAL OF MEDICINE 58, 23, P3831-8, DEC 1958

// NEW-YORK ALBANY-MEDICAL-COLLEGE TRANSCRIPT-TELECONF

THIS ARTICLE CONTAINS THE EDITED TEXT OF A TWO-WAY RADIO CONFERENCE ON PSYCHOTHERAPY, HELD APRIL 12, 1957 BETWEEN THE ALBANY MEDICAL CENTER AND SIX HOSPITALS IN THE ALBANY AREA. THE CONFERENCE BEGAN WITH PRESENTATIONS BY DR. WILLIAM L. SANDS AND DR. JOHN K. MENELEY, JR., BOTH OF ALBANY MEDICAL COLLEGE. IN HIS PRESENTATION, DR. MENELEY STRESSED THAT HE WAS SPEAKING TO ALL PHYSICIANS, NOT JUST PSYCHIATRISTS. FOLLOWING THE PRESENTATIONS, PARTICIPATING HOSPITALS WERE ALLOWED TO SUBMIT QUESTIONS TO THE DISCUSSANTS. OFTEN THESE QUESTIONS LED TO GIVE-AND-TAKE DISCUSSIONS BETWEEN DR. SANDS, DR. MENELEY AND THE CONFERENCE'S MODERATOR, DR. FRANK M. WOOLSEY, JR. OTHER TELECONFERENCE PROCEEDINGS WILL BE PRINTED IN THE NEW YORK STATE JOURNAL OF MEDICINE. SEE ALSO 0542 AND 4051. FK

4925C

*** BRISKIER, ARTHUR

HEART EXAMINATION AND CONSULTATION BY RADIO AND RADIO PHOTO TRANSMISSION

JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 169, 17, P71-89 APRIL 25, 1959

// NEW-YORK-CITY PARIS ROME REMOTE-CONSULTATION DATA-TRANSMISSION RADIO-SHORT-WAVE RADIOPHOTOGRAPHY EKG INTERNATIONAL-DATA-TRANSMISSION

TWO EXPERIMENTS INVOLVING THE TRANSMISSION OF CLINICAL DATA FROM NEW YORK TO PARIS AND ROME WERE PERFORMED ON MAY 26, AND JULY 3, 1958. HEART SOUNDS WERE TRANSMITTED FROM NEW YORK VIA SHORT WAVE RADIO. THE RECORDED SOUNDS WERE INSTANTLY RETRANSMITTED ACROSS THE ATLANTIC FOR CROSS-CHECKING. VISUAL CLINICAL INFORMATION WAS EXCHANGED BY RADIO PHOTOGRAPHY—THIS INCLUDED ROENTGENOGRAMS, ELECTROCARDIOGRAMS AND CARDIO-CHARTS TOGETHER WITH ESSENTIAL PERSONAL INFORMATION ABOUT THE PATIENT. THE SUCCESS OF THESE EXPERIMENTS LEADS BRISKIER TO COMMENT OPTIMISTICALLY ON THE FUTURE APPLICATIONS OF THIS TECHNOLOGY. SINCE THE TRANSMITTED INFORMATION IS SELF-EXPLANATORY AND CONTAINS NO SPEAKER WORDS, THERE WILL BE NO LANGUAGE BARRIER TO "...INSTANTANEOUS MEDICOSURGICAL EXAMINATION AND CONSULTATION." APPLICATION OF LONG-DISTANCE CONSULTATION "...SHOULD RESULT IN A MORE COMPLETE AND SATISFACTORY MUTUAL UNDERSTANDING AMONG ALL DOCTORS AND SCIENTISTS THROUGHOUT THE WORLD." WH
AFTER OBSERVING THE TWO-WAY RADIO NETWORK AT NEW YORK'S ALBANY MEDICAL COLLEGE, THE AUTHOR EXAMINED THE POSSIBILITIES OF SETTING UP A SIMILAR SYSTEM IN GREAT BRITAIN. THE NEED FOR IN-SERVICE MEDICAL EDUCATION WAS RECOGNIZED, BUT IT WAS NECESSARY TO DEVISE A SYSTEM THAT WOULD NOT DISRUPT THE WORK DAY. AN ACCEPTABLE TWO-WAY TELEPHONE SYSTEM WAS NEGOTIATED WITH THE RELIANCE TELEPHONE CO., USING PARALLEL TRUNK LINES BETWEEN NORTHAMPTON AND LONDON. THE AUTHOR FEELS THAT, "THE RANGE OF USEFULNESS OF THIS METHOD IS CONSIDERABLE. ONE CAN THINK OF APPLYING IT ANYWHERE WHERE THE AUDIENCE IS SMALL ENOUGH TO MAKE INTENSIVE PARTICIPATION FEASIBLE - SAY TEN TO TWENTY PARTICIPANTS AT EACH END. ALTHOUGH DIRECT PERSONAL CONTACT HAS TO BE SACRIFICED, THIS IS MORE THAN MADE GOOD BY THE LESSENED DISTURBANCE OF ONE'S DAILY ROUTINE." CONSIDERABLE ATTENTION WAS PAID TO DEVELOPING A SYSTEM WHICH WAS PORTABLE, INEXPENSIVE AND COULD BE OPERATED BY PERSONS NOT TRAINED IN ELECTRONICS.
4929 National Extension College. Inter-University Research Unit
University Intercommunication, the Nine Universities Research Project

4930 National Extension College. Inter-University Research Unit
Perraton, H.D. * Wade, D.A.
* Fox, J.W.
Linking Universities by Technology
Cambridge, National Extension College, 1969. 83p
TELECONFERENCEING, AN ANNOTATED BIBLIOGRAPHY

TEACHING BY TELEPHONE

AUDIOVISUAL INSTRUCTION 12,7, P683-7, SEPT 1967

// TOPEKA KANSAS SECONDARY-ED TEACHER-SHARING COURSE-ENRICHMENT UCLA ADULT-ED EXTENSION

CORNELL INDUSTRY-UNIVERSITY ENGINEERING ELECTROWRITER NEW-YORK-CITY LOS-ANGELES

HOMEBOUND-CHILDREN

THE PUBLIC HIGH SCHOOLS OF TOPEKA, KANSAS BEGAN USING A TWO-WAY TELEPHONE AND ELECTROWRITER TELELECTURE TECHNIQUE AS A TEACHER SHARING DEVICE WITHIN THREE PARTICIPATING SCHOOLS. THE SCHOOLS PLAN TO USE TELELECTURES FOR COURSE ENRICHMENT BY PROVIDING CONTACT BETWEEN THE STUDENTS AND PROMINENT SPEAKERS. THE AUTHOR ALSO DESCRIBES USE OF TELELECTURES BY OTHER INSTITUTIONS TO DEMONSTRATE OTHER MODES OF USE AND THE EQUIPMENT UTILIZED. HE DESCRIBES A UCLA ADULT EXTENSION COURSE WHICH USED PUSH-BUTTON PHONES TO ALLOW SUBGROUPS TO CONVERSE INDEPENDENTLY OR WITH THE ENTIRE GROUP. CORNELL UNIVERSITY'S COLLEGE OF ENGINEERING USES THE "BLACKBOARD-HY-WIRE" TO TEACH INDUSTRIAL SCIENTISTS 95 MILES AWAY. THE SYSTEM UTILIZED TWO-WAY VOICE AND ONE-WAY ELECTRONIC PEN COMMUNICATION AND AN INDICATOR BUTTON TO SIGNAL THE DESIRE TO SPEAK. HOMEBOUND CHILDREN IN NEW YORK AND LOS ANGELES ARE RECEIVING INSTRUCTION BY MEANS OF A NEW BELL SYSTEM SERVICE CALLED TELE-CLASS SERVICE. THE SYSTEM UTILIZED AUTOMATIC DIALING, PUSH BUTTONS ALLOWING SIMULTANEOUS OR INDIVIDUAL CONNECTIONS, AND MULTI-DIRECTIONAL VOICE COMMUNICATION. THE ALVORD UNIFIED SCHOOL DISTRICT IN RIVERSIDE, CALIFORNIA HAS A DIAL-A-TAPE SYSTEM FOR REPETITION OR EXPLANATION OF HOMEWORK ASSIGNMENTS.

DEVELOPMENT, UTILIZATION AND EVALUATION OF GRADUATE EDUCATION BY TWO-WAY RADIO ACTIVE PARTICIPATION CONFERENCES. FINAL REPORT

ALBANY, N.Y., ALBANY MEDICAL COLLEGE. DEPARTMENT OF POSTGRADUATE MEDICINE, 1967
WISCONSIN IDEA JOINS THE PARTY-LINE

PROGRAM PREVIEW 1-9, P19-21, NOV 1968

// WISCONSIN-UNIV EXTENSION-UW ETN-SCA MULTIPLEXING WHA-FM FM-RADIO SCA-REGULATION FCC PROGRAMING


ELECTROCARDIOGRAPH NET LINKS JOHNSTOWN HOSPITAL WITH HOMES OF PHYSICIANS

COMMUNICATIONS NEWS 7-6, JUNE 1970

// PENNSYLVANIA LEE-HOSPITAL REMOTE-DIAGNOSIS DATA-TRANSMISSION EKG GENERAL-TELEPHONE-CO-OF-PENNSYLVANIA

LEE HOSPITAL IN JOHNSTOWN, PENNSYLVANIA HAS INITIATED AN ELECTROCARDIOGRAPH NETWORK WHICH ALLOWS PHYSICIANS TO ANALYZE EKG TRACINGS WITHOUT LEAVING THEIR HOMES. THE EKG NETWORK, WHICH IS AVAILABLE ON WEEKENDS, AT NIGHTS, AND AT OTHER TIMES WHEN A HEART SPECIALIST IS NOT PRESENT AT LEE HOSPITAL, RESULTS IN SPEEDY DIAGNOSIS AND SAVES PHYSICIANS MUCH TRAVEL TIME. UTILIZING STANDARD TELEPHONE LINES PROVIDED BY THE GENERAL TELEPHONE COMPANY OF PENNSYLVANIA, THE SYSTEM CONSISTS OF EKG MACHINES AND DATA TRANSLATORS AT BOTH THE HOSPITAL AND PHYSICIANS' HOMES. THE HOSPITAL UNIT CAN BE MOVED FROM ROOM TO ROOM, AND EKG TRACINGS ARE TAPE RECORDED FOR FUTURE REFERENCE. THE POSSIBILITY OF ADDING OTHER HOSPITALS TO THE EKG NETWORK IS BEING INVESTIGATED. A DIAGRAM AND PHOTOGRAPHS OF THE SYSTEM ARE INCLUDED. FK

FINGER LAKES REGION SUPPLEMENTARY EDUCATIONAL CENTER

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HOMER, N.Y., SUPPLEMENTARY EDUCATION CENTER, 1968. 19P
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// TELEPHONE-TECHNICAL-CAPACITIES TV-TWO-WAY COST BELL


4963B

*** WOODRUFF, GARY L.

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4973C  *** COWAN, JOHN D., JR.
TWO-WAY OFF-CAMPUS GRADUATE TEACHING VIA TV
NATIONAL ELECTRONICS CONFERENCE. PROCEEDINGS 22, P938-40, 1966

4974C  *** BECKMAN, EVERETT G.
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4985  *** BLOCKSTEIN, WILLIAM * DURANT, WINSTON J.
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4986A

*** NATIONAL CONFERENCE ON TELECOMMUNICATIONS POLICY IN EDUCATION, ATHENS, GEORGIA, DEC 4-6, 1968

CARPENTER, C.R. EDITOR MEANEY, JOHN W. EDITOR

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WASHINGTON, JOINT COUNCIL ON EDUCATIONAL TELECOMMUNICATIONS, 1970. ERIC ED 044 917

// CPB JCET PRESIDENTS-TASK-FORCE-ON-COMMUNICATION-POLICY PRIMARY-ED SECONDARY-ED HIGHER-ED GRADUATE-ED CONTINUING-ED ADULT-ED HOME-STUDY PROGRAMMING CATV-TWO-WAY SATELLITE

PAPERS FROM A CONFERENCE ON TELECOMMUNICATIONS ARE PRESENTED IN THIS REPORT, AS WELL AS THE DISCUSSION AND RECOMMENDATIONS OF THE FIVE CONFERENCE COMMISSIONS. THE PAPERS ARE CONCERNED WITH EDUCATION AND TELECOMMUNICATIONS, THE CORPORATION OF PUBLIC BROADCASTING, INFORMATION SYSTEMS FOR THE FUTURE, CABLE TELEVISION, SATELLITE SYSTEMS, THE PRESIDENT'S TASK FORCE ON COMMUNICATIONS POLICY, AND SYSTEMS APPLICATIONS. THE WORK AND REPORTS OF THE CONFERENCE COMMISSIONS CENTERED AROUND THE RELATIONSHIPS OF TELECOMMUNICATION WITH UNIVERSITIES, SCHOOLS, PRESCHOOL EDUCATION, CONTINUING EDUCATION, AND URBAN EDUCATION. THE RECOMMENDATIONS OF THE CONFERENCE COMMISSIONS WERE THAT, THE JOINT COUNCIL ON EDUCATIONAL TELECOMMUNICATIONS (JCET) SHOULD INSURE THE RECOGNITION OF EDUCATION'S STAKE IN THE NEW TECHNOLOGIES, THAT JCET SHOULD EMPHASIZE THE IMPORTANCE OF THE OPPORTUNITY THAT NOW EXISTS TO BRING TWO-WAY CABLE COMMUNICATIONS INTO THE AMERICAN HOME, THAT JCET SHOULD HELP WITH STRATEGY TO USE COMMUNICATIONS MEDIA IN ATTACKING SOCIAL PROBLEMS, THAT JCET SHOULD JOIN WITH OTHER AGENCIES TO BRING ABOUT COOPERATIVE PRODUCTION OF INSTRUCTIONAL MATERIALS, AND THAT JCET SHOULD URGE THE UNITED STATES OFFICE OF EDUCATION TO EXPAND ITS PROGRAMS FOR TRAINING FACULTY AND TECHNICIANS IN THE USE OF TELECOMMUNICATIONS. (MF) ERIC

4987C

*** PARKER, LORNE A.

SCA - A NEW MEDIUM

MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION, 1969. 43P

// ETN-SCA SCA-REGULATION FM-RADIO WHA-RADIO WISCONSIN-UNIV EXTENSION-UW

MULTIPLEXING. THE TECHNICAL DEVELOPMENTS ARE HERE. IT IS UP TO EDUCATIONAL AND COMMERCIAL BROADCASTERS TO EXPLOIT THE TREMENDOUS POTENTIAL THAT SCA MULTIPLEXING OFFERS. A CONCISE VERSION OF THIS BOOK CAN BE FOUND IN THE AUTHOR'S ARTICLE IN EDUCATIONAL BROADCASTING REVIEW. (SEE 4708). LC

DIALING Up A DIALOGUE ON CABLE

BROADCASTING 80,22, P45, MAY 31, 1971

OVERLAND-PARK KANSAS HOMEBOUND-CHILDREN SHOPPING CATV-TWO-WAY TELECABLE-INC
VICOM-MANUFACTURING

BEGINNING JUNE 23, 1971, AN EXPERIMENT WILL BE CONDUCTED IN OVERLAND PARK, KANSAS, WHICH WILL TEST POSSIBLE USES OF TWO-WAY COMMUNICATION OVER CABLE TELEVISION. USING A NEW TYPE OF TERMINAL UNIT, THE EXPERIMENT WILL INITIALLY CONCENTRATE ON HOME INSTRUCTION FOR DISABLED CHILDREN. THE DISABLED CHILD AND HIS TEACHER WILL BE ABLE TO SEE EACH OTHER VIA TELEVISION CAMERAS AND THE CHILD WILL RAISE HIS HAND BY PUNCHING BUTTONS ON THE TERMINAL. TELECABLE, INC., WHICH WILL CONDUCT THE EXPERIMENT, WILL ALSO TEST THE APPLICATION OF TWO-WAY CATV FOR SHOPPING, FIRE AND BURGLAR ALARM NETWORKS, AND OPINION SURVEYS. JK
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AMERICAN TELEPHONE AND TELEGRAPH. BROCHURE. N.P., N.D.

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NEW YORK, XEROX CORPORATION. 1968. 10P. ERIC ED 019 625
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*** THE UNIVERSITY OF WISCONSIN 1971-1972 TELEPHONE RADIO CONFERENCES FOR PHYSICIANS, NURSES,
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*** PILOT STUDY // WYOMING-UNIV CCCIC INSERVICE-ED TEACHER-ED CONSERVATION ELECTROWRITER

*** ART-HISTORY MAKES HISTORY // WYOMING-UNIV CCCIC SECONDARY-ED CURRICULUM-ENRICHMENT
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