SATELLITE TELECONFERENCING

an annotated bibliography
SATELLITE TELECONFERENCING

AN ANNOTATED BIBLIOGRAPHY

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Madison, Wisconsin

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PREFACE

Satellite teleconferencing is one manifestation of an integrated communication system. Interactive communication is becoming increasingly significant as a means of improving education, commerce and related activities and thus there is a need for a comprehensive annotated bibliography on the subject. A teleconferencing system utilizing a satellite can eliminate distance as a cost factor and create the conditions necessary for new and innovative communication services.

One difficulty in this area is to bring together the published literature in such a way as to make it available conveniently and systematically to researchers and other interested parties. It is the purpose of this bibliography to do this.

The research for this document was made possible by the National Aeronautics and Space Administration. We also wish to acknowledge the cooperation and financial assistance of the University of Wisconsin Graduate School, Office of International Studies and Programs, and Space Science and Engineering Center. We wish also to thank Sandra Griffith, Nancy Wulfers, Margaret Rust, and Thomas Stacey for their help in preparing this manuscript for publication.

Delbert D. Smith
Director
The EDSAT Center
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THE EDSAT CENTER

As satellite telecommunication technology promises to revolutionize global communication, efforts must be undertaken to insure that educational applications of this exciting technology are developed. Communication via satellite offers vast potential for facilitating rapid, person-to-person interaction between scholars, educators, and researchers in many countries simultaneously. There is a need for an education-communication system that will accelerate the sharing of the world's knowledge resources at a rate more nearly approaching the speed at which knowledge and technology are growing. The potential for teaching-learning experiences and information sharing which utilize the resources of many countries at once is at the same time phenomenal and quite feasible in view of current satellite technology.

The EDSAT Center at the University of Wisconsin, which is a multidisciplinary facility with a satellite transmitting capability, was created to research and promote educational and social uses of satellite technology, and as such is unique in the United States. Located within the Space Science and Engineering Center, the EDSAT Center provides a base for the natural integration of scientific and humanities input. EDSAT has five basic objectives:

TO EXPAND AND EXTEND UW EDUCATIONAL FACILITIES

The EDSAT Center endeavors to develop and adapt satellite communication technology to expand the educational facilities of the University of Wisconsin. It seeks to utilize satellite capabilities to provide a two-way communications system, bringing outside information to the University through satellite communications and extending the dissemination of knowledge from the University to other areas of the nation and world. EDSAT cooperates with other universities nationally and internationally to develop a fruitful exchange in teaching-learning and information-sharing programs.

TO PROVIDE FOR RESEARCH AND TRAINING

Center research interests focus on the interinstitutional, problem-oriented applications of satellite telecommunication and the potential of satellites in education. The Center investigates the possibilities of using satellites to collect data to provide point-to-point dissemination of data, to link institutions nationally and internationally, and to supply a medium for instruction bridging cultural and political boundaries. The Center also conducts research in multicultural systems of education and the problems of communication between people of different cultures.

Research areas of special interest to EDSAT include satellite teleconferencing, satellite telecommunications in teaching-learning activities, telecommunication law, the interface between satellite and cable communication, and evaluation and assessment of the social and educational impact of satellite telecommunications.

TO DEVELOP MODELS

The EDSAT Center is working with other educational institutions, foundations, United Nations organizations, and governmental agencies in attempting to develop satellite systems to meet various needs. A user-oriented approach is applied which utilizes feasibility studies and other means in determining the most beneficial satellite system configuration. Based on the results of research generated at the Center and in the field, working models are developed which can then be adapted by others, in cooperation with EDSAT, to suit their particular needs and circumstances.

The Center emphasizes the development of software, which will provide the basis for the design of particular educational materials to be used in experimental and eventually in operational educational satellite systems. Software technology generated in this way serves as the basis for hardware and media development. It is important that hardware and software be regarded as integral parts of a total system, neither of which can be applied in an unrelated fashion. To the extent that software development precedes and shapes hardware development and uses, it becomes possible to develop a hardware technology which is user-oriented and which consists of equipment of a specialized nature developed in response to users' needs.

In addition to models for the development of hardware and software, the Center also conducts studies based on research and experiments in the field, to establish legal and organizational models to serve as the basis for eventual national, regional, and global communication satellite systems. The complexities of such systems may in some cases require the creation of new institutional bodies or special national and international legislation to deal with the problems involved. The Center's early research in telecommunication law indicates a need for cooperation between potential users and national and international political authorities in order to develop a model agreement between countries to regulate the operations of any effective satellite telecommunication system.
TO DEVELOP A TRANSMISSION CAPABILITY

The Center's experimental-demonstration laboratory is located in the Space Science and Engineering Center on the Madison campus and operates under an experimental radio license with FCC call letters KB2-XML. Equipped with two Motorola base-station transceiver units (110 watts and 400 watts), the Center has full voice and data transmission and reception capabilities. The base station is designed for remote control operation permitting transmission, reception, monitoring and control from various locations. EDSAT Center transmissions are made at 149.22 and 149.25 megacycles and receptions at 135.6 and 135.62 megacycles. All activities thus far have been conducted via Applications Technology Satellites I and III which are used by permission of NASA.

In the area of technology development, the Center is working on the development of low-cost, high-performance base-station capabilities which conform to users' needs as developed through software research. Work is being done on experimentation and design of "interface" connections between satellite communication equipment and peripheral equipment, such as physiological sensory devices, facsimile devices and computers. Full duplex capabilities, i.e., simultaneous two-way voice communications, exist and are being refined for application to teleconferencing and teaching-learning activities. Relatively inexpensive small satellite ground terminals of the kind the Center is developing are expected to have great utility in educational applications, especially those involving direct-broadcast satellites. Presently under study is the development of a low-cost video capability which will supplement the various audio and data transmission systems.

TO ESTABLISH AN INFORMATION CLEARINGHOUSE

The EDSAT information clearinghouse provides for the collection, annotation, and selective dissemination of information on educational and social applications of satellite communications and related fields. After initial selection, this information is made available to a broader community through the publication of special bibliographies. The clearinghouse has developed a continuing in-house bibliographic service to meet the information needs of Center-connected research personnel in the U.S. and abroad.

Thus the work of the EDSAT Center is charting new directions for the utilization of satellite technology. Through its research and technical capabilities it will prove possible for the Center to explore educational satellite telecommunication and to derive models and projects for improved understanding in this area.
INTRODUCTION

In this annotated and indexed listing of works on satellite 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 proved 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 communicants 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 Yumbichio, 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 professions 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 Permutted 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 cooperate body of authorship. News items with no stated authorship and having no author listing do not appear in the Author Index.

The Permutted 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., MOCKER, 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 Permutted 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.

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<td>/ / SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-PRE-AND-POST-TESTING EVALUATION-CONTROL-GROUP</td>
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<td>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....FK</td>
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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.

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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.

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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.

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*** AMERICAN TELEPHONE AND TELEGRAPH

SUGGESTIONS FOR EFFECTIVE TELE-LECTURE PRESENTATIONS

AMERICAN TELEPHONE AND TELEGRAPH, BROCHURE. N.P., N.D.

/Coordinating Moderator Pre-Planning Presentation-Skills Visual-Aids Electromirror

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 PREPARATION 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 PRIOR TO A SESSION, SUCH IMMEDIATE TELECONFERENCE COORDINATORS ARE MADE IN THE AREAS OF 11 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. FK

0420C

*** MCFARREN, WARREN C.

BOEING NETWORK CUTS APOLLO WORK COSTS

AVIATION WEEK AND SPACE TECHNOLOGY 80, N. 403-4, FEB 10, 1969

/Industry NASA LOX BELL-TELEPAK- THERMOPAX REAR-SCREEN PROJECTORS AD-HOC CONFERENCES LEGAL-ASPECTS LEASED-LINES

THIS ARTICLE DESCRIBES HOW THE BOEING CO. USES TELECONFERENCE FOR MEETINGS BETWEEN EMPLOYEES CO-LOCATED 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 LOGIC PURPOSES, SUCH AS ENTOMOLOGY SYSTEM IS USED FOR VISUALS. CLOSED CIRCUIT TELEVISION WAS CONSIDERED, BUT THE LOX SYSTEM IS MUCH LESS EXPENSIVE. THE LOX TERMINALS ARE CONNECTED BY THE BELL SYSTEM TELEPAK, A WIDE-BAND LEASED CIRCUIT WHICH FEDERAL LEGISLATION REQUIRED BEING TO NET ON A FULL-TIME BASIS, EVEN THOUGH IT IS NOT USED AT ALL TIMES. ALSO UTILIZED ARE THERMOPAX MACHINES AND REAR SCREEN PROJECTORS. MEETINGS ARE HELD AT TELECONFERENCE THEATRES 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 CONDUCTED. UNIQUE RESOLUTIONS GENERALLY FOLLOW A PRESENTATION, AND REGIONAL CHAIRMAN CAN CHANGE SPECIFIC SESSIONS IN OR OUT OF AN ONGOING MEETING. THE ARTICLE CONCLUDES WITH A LIST OF POTENTIAL IMPROVEMENTS. FK

0421C

*** BLACKWOOD, HELEN M TRENT, CURTIS

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

MANHATTAN, KANSAS STATE UNIVERSITY, UNIVERSITY EXTENSION SERVICE, 1968. 16+, EXTENSION STUDY 41. ERIC ED 028 324

/EXTENSION ADULT-ED EVALUATION-CONTROL-GROUP EVALUATION-PRE- AND POST- TESTING

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 PERSISTENCES 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. THAT EITHER TEACHING TECHNIQUE COULD BE USED RESULTING IN SIMILAR AMOUNTS OF LEARNING. IMPLICATIONS FOR EXTENSION WORKERS AND USE OF REMOTE TEACHING TECHNIQUES ARE INCLUCED. ERIC

0422C

*** SINIKKO, R. WALLACE

PRELIMINARY EXPERIMENTS IN TELECONFERENCING


/DEFINITION-TELECONF INTERNATIONAL-TELECONF PROBLEM-SOLVING LANGUAGE CHAIRMANSHIP-ROLE NETWORKS TV TELETYP

EXPERIMENTAL STUDY OF THE USE OF TELECONFERENCE AS AN EFFICIENT MEANS OF GROUP COMMUNICATION. TELECONFERENCE REQUIRES THE CONDUCT OF CONFESSIONS WHEN THERE ARE THREE OR MORE CONFEREES, CONFEREES ARE REMOTE FROM ONE ANOTHER AND NOT ALL PARTICIPANTS SPEAK THE SAME LANGUAGE. THE INSTITUTE FOR DEFENSE ANALYSIS PERFORMED A STUDY TO LEARN WHETHER INTERIM PROTOCOLS COULD BE SPECIFIC TO ENABLE TELECONFERENCE TO BE CONDUCTED EFFICIENTLY IN THE FUTURE. WHAT ADDITIONAL RESEARCH WAS NEEDED TO FILL GAPS IN CURRENT KNOWLEDGE RELEVANT TO TELECONFERENCE, A LABORATORY FOR COORDINATING EXPERIMENTS IN TELECONFERENCE PROCEDURES WAS ESTABLISHED, AND FIVE SCHEDULED WORK INCLUDED TELETYPewriter AND TV TELEVISION COMMUNICATION AND WAS DUE TO PROVIDE FLEXIBLE MEANS FOR VARYING SECURITY STRUCTURES, CHAIRMANSHIP ROLES, LANGUAGE SERVICES, AND CONFERENCE TASKS. IT WAS FOUND THAT, FOR NEGOTIATION OR BARGAINING AMONG REMOTE CONFEREES, THE MOST IMPERSONAL MEDIA WERE PREFERRED. AIAR. SEE 0478-04

0424C

*** AHERTON, LAWRENCE L.

CLASSROOM PARTY-LINE

OHIO SCHOOLS 42, P. 294+, OCT 1964

/CHIO YELLIN-SPRINGS-HIGH-SCHOOL SECONDARY-ED COURSE ENRICHMENT-AMERICAN INSTITUTIONS COST

YELLOW SPRINGS HIGH SCHOOL, OHIO, HAS INITIATED IN COLLABORATION WITH OHIO BELL A TELELECTURE SYSTEM USING MODULAR TELEPHONES TO DRUG-SPECIFIC INFORMATION INTO THE HIGH SCHOOL. TELELECTURES WERE USED IN THE HIGH SCHOOL'S AMERICAN GOVERNMENT COURSE IN CONJUNCTION WITH A DISCUSSION OF THE YALE UNIVERSITY TELELECTURE SYSTEM. IT WAS FEEL THAT REPRESENTATIVE STATE AND PRIVATE PROGRAMS COULD BEST EXPLAIN THEIR RESPECTIVE PROGRAMS AND THAT USING THE TELELECTURE TECHNIQUE COULD ALJIVATE TRAVEL COSTS AND INCIVENIENCE. INSTALLATION COST WAS APPROXIMATELY 20,000 COLUMNS TO RUN EXTENSION LINES FROM EXISTING PHONES TO CLASSROOMS. PORTABLE PHONE AND SPEAKER ATTACHMENT RENTAL WAS SEVEN DOLLARS PER MONTH. CM
**0427**

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

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

**0428C**

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

**TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING**

**ADULT LEADERSHIP 16,9, P321-24, MARCH 1968**

// **SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-PRE-AND-POST-TESTING 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 DRAWING THE RESOURCE OF TRAINED TEACHERS. THE INITIAL ST. LOUIS EXPERIMENT PRESENTED THE SAME INTRODUCTORY PSYCHOLOGY COURSE TO THREE DIFFERENT GROUPS. THESE GROUPS WERE 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 LECTURE WHICH WAS SIMULTANEOUSLY TRANSMITTED TO THE THIRD GROUP (N=22) LOCATED IN A REMOTE CLASSROOM. RELEVANT VARIABLES WERE VERY CLOSOELY REGULATED, AND SCALES SCORED BEFORE AND AFTER THE COURSE INDICATED ALMOST NO DIFFERENCE IN LEARNING AMONG THE THREE GROUPS. THE UNIVERSITY OFFERED 9 CREDIT COURSES IN 1964-67 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 PROFESSORS HAD TO CREATE MATERIALS FOR A CLASS THAT HAD NO ACCESS TO THE MATERIALS OF THE HOME CLASSROOM. HOWEVER, THIS PROBLEM DID NOT ARISE IN A SUCCESSFUL SERIES OF TELELECTURES WHICH DID NOT HAVE ON-THE-SPOT AUDIENCES.**

**0429A**

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

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

// **PICTUREPHONE AT-T UNION-CARIBIDE**

**UNION CARIBIDE IS COOPERATING WITH AMERICAN TELEPHONE AND TELEGRAPH COMPANY IN THE FIRST BROAD BUSINESS TEST OF PICTURE-PHONES. PICTURE-PHONES CUT DOWN ON INTERFERENCE VISITS WITHOUT DEPRIVING PEOPLE OF THE SENSE OF HAVING VISITED. AT-T IS CONSIDERING WIDE ANGLE LENSES FOR CONFERENCE, MAGNIFYING LENSES FOR BETTER DISPLAY OF OBJECTS AND CHANGES IN THE PICTURE-PHONE ITSELF.**

**0430C**

**CHRISTIANA, CIEL**

**LONG-DISTANCE LECTURES RING EXPERTS TO THE CLASSROOM**

**NEW YORK STATE EDUCATION 51,2, P16-7, JUN 1963**

// **NEW-YORK COLUMBIA-UNIV HIGHER-ED INTERUNIVERSITY-COOPERATION CLASSICS SATELLITE TELSTAR-11 COST-FORD-FOUNDATION**

**IN JULY OF 1963, DR. MOSES HADAS DELIVERED THE FIRST OF 18 LECTURES TO 500 STUDENTS FROM FOUR DIFFERENT SOUTHERN NEW YORK 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 GENERALLY OPERATE ON REGULAR TELEPHONE LINES, 15 MINUTES OF THIS FIRST LECTURE WERE SENT VIA TELSTAR 11 TO ILLUSTRATE SATELLITE CAPABILITY.**

**0432C**

**CURRACH, R. KATHLEEN C.**

**TELE-CLASSES IN LOS-ANGELES SCHOOLS**

**CALIFORNIA EDUCATION 3,9, P-5-7, JAN 1966**

// **CALIFORNIA LOS-ANGELES-UNIFIED-SCHOOL-DISTRICT HOMEBOUND-CHILDREN PRIMARY-ED SECONDARY-ED MATH-SCIENCE MATERIALS PACIFIC-TELEPHONE-CO**

**TELE-CLASSES FOR HOMEBOUND OR HOSPITALIZED STUDENTS IN GRADES 4-12 HAVE BEEN UTILIZED IN LOS ANGELES SCHOOLS SINCE 1962. DURING THE 1964-65 SCHOOL YEAR, 338 PUPILS WITH VARIOUS PHYSICAL DISABILITIES WERE ENROLLED. THE SYSTEM, SET UP IN COOPERATION WITH THE PACIFIC TELEPHONE CO., INCLUDES A HEADPHONE FOR THE INDIVIDUAL STUDENTS AND COMMUNICATIONS CENTERS FOR THE TEACHERS. THE TEACHER'S EQUIPMENT ALLOWS SINGLE OR GROUP INTERACTION ON SEPARATE LINES. PUPILS CAN BE CONTACTED INDIVIDUALLY OR COLLECTIVELY, AND THEIR RESPONSES MAY OR MAY NOT BE HEARD BY THOSE OTHER THAN THE TEACHERS. SUPPLEMENTARY BOOKS, WORKSHEETS, MAPS, ETC., ARE SENT BY MAIL, AND TEACHERS VISIT STUDENTS AS NECESSARY TO MAINTAIN PERSONAL CONTACT AND ADMINISTRATIVE BEAMS. URBAN DISADVANTAGES INCLUDE CONVENIENCE FOR THE TEACHERS, LOWER COST WHEN STUDENT IS HOMEBOUND FOR 2 MONTHS OR MORE, AND OF COURSE, THE OPPORTUNITY FOR THE DISABLED CHILD TO MAINTAIN CONTACTS WITH SCHOOL AND FRIENDS.**

**0433**

**DAVIS, H.E.**

**NEW APPROACH TO IN-SERVICE EDUCATION: GREATER CLEVELAND SOCIAL-SCIENCE PROGRAM**

**EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45,5, P28+, MAY 1966**
RIDC INDEX

0434C ***

DC-W LINE FOR DRUGS

NEWSWEEK, PSS, JAN 15, 1962

MEDPHONE, WASHINGTON-DC GEORGE-WASHINGTON-UNIV CURRENT AWARENESS DIAL-ACCESS MEDICINE PHARMACEUTICALS

MEDPHONE, 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' PRO酶URES AND ARTICLES DATING BACK TO 1946. THE FILE WILL BE KEPT UP-TO-DATE BY THE PHARMACOLOGY DEPARTMENT OF GEORGE WASHINGTON UNIVERSITY. MEDPHONE, AS A PRIVATE ENTERPRISE, WILL CHARGE SUBSCRIBERS 20 CENTS A YEAR AND 3 CENTS FOR EACH CALL. MOST OF THIS INCOME WILL HELP TO PAY THE SALARIES OF THE PART-TIME ANSWERING PANELISTS. CM

0435C ***

FACSIMILE BY PHONE OFFERED BY XEROD

BUSINESS WEEK, P76, MAY 7, 1966

TELECOPIER MAGNAVOX-CC GS7

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 ANYWHERE WITH A SIMILAR DEVICE AND TRANSMIT BY SIMPLY PLACING THE PAPER "AMOSER" ON THE MACHINE'S CHUTE. THE TELECOPIER, TO BE MARKETED AND SERVICED BY THE XEROX CORPORATION, WILL BE LEASED FOR 33 DOLLARS A MONTH PLUS A FEE OF 2.5 CENTS PER MINUTE. CM

0437C ***

INNOVATIONS IN SERVICE PROGRAMS

WISCONSIN JOURNAL OF EDUCATION 103, 3, P18-9, NOV 1967

UNDER THE DIRECTION OF E. J. SCHRAMM, 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, WEXFORD, RUTHERFORD AND RUSSELL AND WAUSAU. THE PROGRAMS INCLUDES A SERIES OF INTERCONNECYED "HOT LINES" THROUGH WHICH PERSONS IN VARIOUS LOCATIONS CAN CONVERSE. THE PROGRAMS' NAME WAS CHANGED FROM IN-CLASSROOM PILOT TO TELELECTURE AFTER AN ELECTRODELINE WAS INCORPORATED INTO THE SYSTEM AS A "VIRTUAL" LECTURE. 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 FROM 2 TO 14 PARTICIPANTS AT EACH RECEIVING STATION. EVALUATION SHEETS ARE FILLED OUT BY THOSE TEACHERS IN ATTENDANCE FOLLOWING EVERY SESSION. A PARAPROFESSIONAL TEACHER/IDI PROGRAM IS ALSO BEING CONSIDERED BY THE SAME CITIES WHICH ARE INVOLVED WITH THE TELELECTURE PROGRAM. FK

0442C ***

NEW DEVELOPMENTS IN EDUCATIONAL TELECOMMUNICATIONS

AUDIOVISUAL INSTRUCTION 11, 6, P442, JUNE-JULY 1966

SAN FRANCISCO CALIFORNIA DAVI CMT LIBRARY-SCIENCE ELECTRODAR DATA-PHONE

A SPECIAL AUDIO-VISUALLY INTERCONNECYED CONFERENCE SESSION WAS HELD BETWEEN DAVIS (DEPARTMENT OF AUDIOVISUAL INSTRUCTION) AND CMT (CITY-COUNTY MEDICAL TELEVISION) DEALING WITH LIBRARY AND INFORMATIONAL PROBLEMS. THE SYSTEM INCLUDED A UNIDIRECTIONAL ELECTRODAR LINK FROM SAN DIEGO TO SAN FRANCISCO AND A TWO-WAY VOICE CONNECTION BETWEEN THE TWO CITIES. THE TWO GEOGRAPHICALLY SEPARATED GROUPS EXPLORED IDEAS FOLLOWING LECTURES ILLUSTRATED BY MEANS OF THE ELECTRODAR. ACCORDING TO THE AUTHOR, THIS DEMONSTRATION PROVED THAT 'WITH THE PROPER SURVEY, DESIGN, AND OPERATION, THE USE OF THE TELELECTURE/ELECTRODAR MAY PROVE QUITE VALUABLE IN EDUCATION.' CM

0444C ***

PET THE SPEAKSMAN

AUDIOVISUAL INSTRUCTION 9, 4, P216, APRIL 1964

SAN DIEGO CALIFORNIA PREPARY-ED COURSE-ENRICHMENT

THE SPEAKSMAN, A DEVICE WHICH APPLIES A TELEPHONE CONVERSATION SO THAT A WHOLE CLASS CAN LISTEN TO IT, WAS GIVEN YOUNG STUDENTS MANY NEW EXPERIENCES IN FIRSTHAND EXCHANGE WITH EXPERTS IN NUMEROUS FIELDS. THE SPEAKSMAN, 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. FK
0445C

*** KAY, EUGENE J.

NEW TELEPHONE LEARNING TECHNIQUES

BALANCE SHEET 46,7, P192, 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. PK

0446A

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LECTURES ON THE PHONE, TELELECTURES

TIME, P37, JULY 19, 1963

// MISSISSIPPI CLASSICS SATELLITE TELSTAR-II

A BRIEF ACCOUNT OF HOW MOSHE 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

0447C

*** LEWIS, PHILIP

TELECOMMUNICATIONS, NEW PARTY-LINE FOR EDUCATION

NATION'S SCHOOLS 78,4, P114, SEP 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, ELECTROWRITERS, SLOW-SCAN TV AND FACSIMILE. CM

0448

*** MADDEN, CHARLES F.

GIVE A RING, GET A LECTURE: TELEPHONES IN THE SOUTHERN STATES

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

0449C

*** McDIVITT, HELEN

TEACHING BY CLOSED-CIRCUIT TELEPHONE IN NINE CENTRAL SCHOOLS

CLEARING HOUSE 38,7, P456-8, MARCH 1964


PCDIVITT 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 SWITCHING SITE CONNECTS EACH BY CLOSED CIRCUIT TELEPHONE TO THE OTHERS AND TO THE OUTSIDE WORLD. THE EXPERIMENT WAS BEGUN IN 1962 TO SUPPLEMENT REGULAR INSTRUCTION BY ALLIVING SCHOOLS TO ESTABLISH CONTACT 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 COMES FROM THE DIRECT TWO-WAY CONTACT BETWEEN SPEAKER AND STUDENT." WH

0450

*** MEYHES, E.A. (AND OTHERS)

BLACKBOARD-BY-WIRE AND GRADUATE INSTRUCTION IN CHEMISTRY

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

0451

*** MONCELBRU, J.C.

SIX EXPERIMENTAL TELELECTURES

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

0452C

*** MOORE, J. MICHAEL

TELECOMMUNICATIONS IN FL INSTRUCTION

AUDIOVISUAL INSTRUCTION 10,4, P56-6, 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 MENGLE 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. PK
0453

**MCATCHE, DERRY E.**  
**BERNS, RICHARD L.**

**TELELECTURE IN INDUSTRIAL EDUCATION**

**INDUSTRIAL ARTS AND VOCATIONAL EDUCATION** 55:6, P4A, JULY 1966

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0458C

**PAUL, ALFRED V.**

**NEW CONCEPT IN SHAPING SPEECH PROFESSORS**

**SPEECH TEACHER** 13(1), P72-9, JAN 1965

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0461C

**PICTUREPHONE**

**SCIENTIFIC AMERICAN** 211:1, P49, JULY 1964

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0462C

**PICTUREPHONE DEVELOPED FOR COMMERCIAL USE**

**SPECTRUM** 8, P74, AUGUST 1, 1964

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0463

**SIX WORKSHOPS RECEIVE KEY PRESENTATIONS VIA TELELECTURE**

**EDUCATIONAL SCREEN AND MICROVISION GUIDE** 49:5, P294, MAY 1966

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0466C

**SOPESKE, ROBERT A.**

**HELLO GREAT AMERICAN**

**WISCONSIN JOURNAL OF EDUCATION** 51:1, P41, SEP 1965

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0466C

**SWEIDISH, KALINE E.**  
**SHEPARD, ALEXANDRA**  
**STUFLER, DOROTHY**

**TELELECTURE BRINGS FAMOUS DESIGNER TO TEXTILE AND CLOTHING STUDENTS**

**JOURNAL OF HOME ECONOMICS** 58:1, P40-9, JAN 1966

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0466C

**TEXTILE AND CLOTHING STUDENTS AT SOUTH DAKOTA STATE UNIVERSITY HAD THE OPPORTUNITY TO HEAR FROM AN INTERNATIONALLY KNOWN FASHION DESIGNER THROUGH A LONG-DISTANCE TELELECTURE HOOKUP. PREPLANNING FOR THE TELELECTURE WAS EXTENSIVE. STUDENTS PREPARED A BIBLIOGRAPHY OF THE DESIGNER'S WORK, DISPLAYED ITEMS FOR SALE, AND HELD A SPECIAL MEETING TO DISCUSS THE NEWEST TRENDS IN FASHION. THE DESIGNER THEN HAD THE OPPORTUNITY TO TALK WITH THE STUDENTS VIA TELEPHONE. THIS TELELECTURE WAS THE FIRST IN THE NATION TO USE LONG-DISTANCE TELEPHONE SERVICE FOR PREPLANNING AND FOR THE ACTUAL EVENT.**
SPREADING THE WORK ON THE NEW MATH

BUSINESS WEEK, WED. 2 April 1965

THE NORTHWEST IOWA TELEWRITER PROJECT MAKES USE OF TELEPHONE LINES AND THE VICTOR ELECTROWRITER TO TEACH THE NEW MATH TO SOME 2,930 PARENTS AND ELEMENTARY SCHOOL TEACHERS. LECTURES GIVEN BY INSTRUCTORS IN CHICAGO, URBANA, ILLINOIS, AND CEDAR FALLS, IOWA, WERE REPLIED TO SEVEN SCHOOL HALLS IN NORTHWEST IOWA, UP TO 500 MILES AWAY FROM THE SOURCE. SLIDES OF THE LECTURES WERE USED TO KEEP INTEREST HIGH. TELEWRITERS ALLOWED THE STUDENTS TO ASK QUESTIONS AND THE TELEWRITERS, FLIGHTS OR TEACHERS FIGURED OUT THE ANSWERS AT EACH LOCATION. SPECIAL INSTRUCTIONAL MATERIALS WERE DESIGNED AND PURCHASED FROM ENCYCLOPEDIA BRITANNICA. 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 INCREASE PARENTS' UNDERSTANDING OF THE NEW MATH AND HAS PROVIDED TEACHERS WITH NECESSARY INSERVICE TRAINING. UNLIKE TELEVISION, THIS METHOD OF INSTRUCTING PERMITS AUDIENCE RESPONSE AND SO ALLOWS THE INSTRUCTOR TO ADAPT his PRESENTATION CONTINUALLY TO HIS AUDIENCE. FURTHERMORE, THE EXPENSE IS ESTIMATED AT 1/300 OF THAT OF CLOSED-CIRCUIT TELEVISION BROADCASTS OF A SIMILAR NATURE.

TELEPHONE TEACHERS

TIMES EDUCATIONAL SUPPLEMENT 20 May 1965

THE 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 EARN ALL THAT COUNTS 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 BORNE BY THE EDUCATION AUTHORITIES OR LOCAL ORGANIZATIONS. THE SECOND DEVELOPMENT IS THE USE OF THE TELEPHONE IN EDUCATION. THE TELELECTURE. A RECENT LECTURE SPREADS AMONG OHIO UNIVERSITY INCLUDES TELELECTURES BY TWO FAMOUS ELIZABETHAN SCHOLARS. ONE LECTURER AT CORNELL UNIVERSITY 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 PROVIDES AN ENHANCED FEELING OF UNITY BETWEEN STUDENT AND TEACHER. OHIO STATE UNIVERSITY LECTURER REVEALED THAT HE FELT AN EVER GREATER LURE TO COMMUNICATE THAN WHEN HE COULDN'T SEE HIS AUDIENCE. THE SAVINGS IN COST, TRAVEL AND TIME ARE NOTED.

PICTUREPHONE AS A PHOTO TOOL

POPULAR PHOTOGRAPHY 514, P. 146, OCT 1965

THE EDITOR OF THE "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 TWENTY 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 THIRTEEN BY FIVE AND THREE-FOURTHS INCHES, THE RESOLUTION IS GHOU. EXCEPT FOR FOCUSING, IT OPERATES AUTOMATICALLY—ADJUSTING CONTRAST AND ADAPTING TO ILLUMINATION RATING FROM 9 TO 100 FOOT CANDLES. IT INCLUDES AUTOMATIC SYNCHRONIZATION TO ELIMINATE THE JITTER FOR HORIZONTAL OR VERTICAL CONTROLS.

MAKING CURRENT EVENTS REAL FOR STUDENTS

SCHOOL MANAGEMENT 10, 3, P. 31, SEPT 1966

THE USE OF CURRENT EVENTS IN HIGH SCHOOLS IN OSWEGO, NEW YORK HAVE UTILIZED TELELECTURES TO BRING MANY FAMOUS PEOPLE IMPORTANT FIGURES INTO THE CLASSROOM. REGULAR LONG DISTANCE TELEPHONE CALLS ARE MADE OVER THE SCHOOL LOUDSPEAKER SYSTEM. COSTS INCLUDED APPROXIMATELY 100 DOLLARS FOR LINE CHARGES AND 20 DOLLARS FOR SPEAKERS' FEES. SESSIONS ARE TAPE RECORDED FOR FUTURE USE.
HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING

HUMAN FACTORS, 4, 0475-80, DEC 1966

DELY ECCH 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 MUTATION OF SPEECH BY THE ECHO SUPPRESSORS SO THAT THE OVERALL QUALITY OF THE CIRCUIT AS GOD BY THE USERS, SUFFERS.* CHARTS AND GRAPHS ACCOMPANY THIS ARTICLE TO ILLUSTRATE THE RELATIONSHIPS 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 CA.

TELECONFERENCING, BACKGROUND INFORMATION

INSTITUTE FOR DEFENSE ANALYSIS, RESEARCH AND ENGINEERING. RESEARCH PAPER P-106. 10A/HQ 64-2310, NOV 1963

TELECONFERENCING, GUIDELINES FOR RESEARCH

INSTITUTE FOR DEFENSE ANALYSIS, RESEARCH AND ENGINEERING. RESEARCH PAPER P-107. 10A/HQ 64-2312, NOV 1963

TELECONFERENCING, LANGUAGE AND CULTURAL FACTORS

INSTITUTE FOR DEFENSE ANALYSIS, RESEARCH AND ENGINEERING. RESEARCH PAPER P-109. 10A/HQ 64-2314, NOV 1963

INTERNATIONAL-TELECONF INTERPRETATION TRANSLATION CROSS-CULTURAL-TELECONF

THIS PAPER DISCUSSES TYPES OF LANGUAGE TRANSPORTATION SERVICES AND THEIR APPLICABILITY TO INTERNATIONAL TELECONFERENCING. THE AUTHOR NOTES THE DIFFERENCE BETWEEN SPONTANEOUS TRANSLATION OF ORAL MATERIAL (E.G., TRANSLATION), ALTHOUGH THIS DISTINCTION SOMETIMES BECOMES BLURRED IN A TELECONFERENCING SETTING. FOUR BASIC TYPES OF INTERPRETER ARE DISCUSSED: 1) THE FULL TRANSLATION METHOD, WHICH IS USEFUL IN INTERPRETING SITUATIONS WHERE TRANSLATION IS ABSOLUTELY NECESSARY; 2) THE SIMULTANEOUS INTERPRETATION METHOD, WHICH IS USEFUL IN INTERPRETING SITUATIONS WHERE THE PARTICIPANTS WISH TO SPEAK SIMULTANEOUSLY; 3) THE CONSECUTIVE INTERPRETATION METHOD, WHICH IS USEFUL IN INTERPRETING SITUATIONS WHERE THE PARTICIPANTS DO NOT WISH TO SPEAK SIMULTANEOUSLY; AND 4) THE DIPLOMATIC METHOD, WHICH IS USEFUL IN INTERPRETING SITUATIONS WHERE THE PARTICIPANTS WISH TO SPEAK CONSECUTIVELY.

TELECONFERENCING, CAPACITY OF CURRENT COMMUNICATION FACILITIES

INSTITUTE FOR DEFENSE ANALYSIS, RESEARCH AND ENGINEERING. RESEARCH PAPER P-110. 10A/HQ 64-2315, NOV 1963

INTERNATIONAL-TELECONF NATC COST TECHNICAL-CONSIDERATIONS

THIS PAPER CONSISTS OF A GENERAL DISCUSSION OF THE TECHNICAL REQUIREMENTS FOR INTERNATIONAL TELECONFERENCING NETWORKS AND A CURRICULUM ASSUMPTION OF AVAILABLE TELECONFERENCING FACILITIES IN NATC CAPITALS. IN THE PAPER, TELECONFERENCING REQUIREMENTS ARE BROKEN DOWN INTO THREE FACTORS WHICH CAN AFFECT A TELECONFERENCING NETWORK: 1) THE NETWORK, IN WHICH EACH TERMINAL TRANSMITS ITS OWN LANGUAGE; 2) THE TERMINAL NETWORK, IN WHICH MANY CONSECUTIVE INTERPRETATIONS ARE DONE SIMULTANEOUSLY; AND 3) THE DIPLEX NETWORK, IN WHICH THE ORIGINAL IS TRANSMITTED IN ONE DIRECTION AND AN INTERPRETATION IS MADE IN ANOTHER. SINCE LANGUAGE SERVICES EFFECT TELECONFERENCING TO SOME EXTENT, IMPERATIVE ATTENTION IN THE FCR OF RESEARCH SHOULD BE GIVEN TO THE EFFICIENCY PROBLEMS OF 1) TRANSLATION AND INTERPRETATION IN THEIR SEVERAL COMBINATIONS AS REQUIRED BY VARIOUS MEDIA OF COMMUNICATION. FD

TELECONFERENCING, PROCEDURES

INSTITUTE FOR DEFENSE ANALYSIS, RESEARCH AND ENGINEERING. RESEARCH PAPER P-111. 10A/HQ 64-2316, NOV 1963

INTERNATIONAL-TELECONF DEFINITION-TELECONF NETWORKS PROTOCOL LANGUAGE PRESENTATION-SKILLS CHAIRMAN'S-IP-ROLE

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 PROCEEDURAL 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, DESCRIPIONS AND PROCEDURAL ANALYSES ARE GIVEN FOR THREE GENERAL TYPES OF NETWORKS: 1) COMMON CIRCUIT SIMPLEX NETWORKS (E.G., DELTA NETS) 2) MULTI-CONTROL NETWORKS (E.G., Y NETS) AND 3) COMBINATION NETWORKS. PROCEDURAL ISSUES ARE BROUGHT FORWARD TO THE END OF THE PAPER TO BE ILLUSTRATED BY THE TELECONFERENCE'S CHAIRMAN 3) THE CONVERSATIONS AND MEDIA COMBINATIONS. IN CONCLUSION, THE AUTHOR MAKES OCTAL OBSERVATIONS AND SUGGESTIONS, NOTING THAT WELL-THOUGHT-OUT PROCEDURES ARE ESSENTIAL TO THE SUCCESS OF A TELECONFERENCE. FD
0483C

TELECONFERENCE, LITERATURE REVIEW, FIELD STUDIES, AND WORKING PAPERS


0484A

TELECONFERENCE, PRELIMINARY EXPERIMENTS


0489C

USE OF TWO-WAY RADIO BY VOLUNTARY HEALTH ORGANIZATION FOR CONTINUING MEDICAL EDUCATION


0501C

INITIAL EXPERIENCE WITH ENCODED TWO-WAY MEDICAL TELEVISION


// LOS ANGELES CALIFORNIA UCLP POSTGRADUATE-ED PHYSICIAN-ED INSECTICIDE-ED MODERATOR EVALUATION/QUESTIONNAIRE KRT VIDEOTAPE-RECORD COST


0512C

EXPERIENCES WITH TWO-WAY TELEVISION IN A TEACHING HOSPITAL COMPLEX


// VERNUM-UNIV KANSAS-UNIV REMOTE-PATIENT-MONITORING X-RAY EEG EKG-VIA-SATELLITE FLUOROSCOPY-TRANSMISSION SATELLITE COAXIAL-CABLE COST

*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 FLUOROSCOPY EXAMS, RADIODES, ELECTROCARDIOGRAMS, MICROSCOPIC IMAGES, TEACHING CONFERENCE ROOM, OPERATIVE PROCEDURES, AND PATIENTS UNDERGOING RADIOLOGY THERAPY. PROJECTED PLANS INCLUDE THE DEVELOPMENT OF A TWO-WAY AUDIOVISUAL TRANSMISSION BETWEEN THE MEDICAL CENTRAL TELECOMMUNICATION 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.

0542C

TWO-WAY RADIO CONFERENCES, THE ALBANY MEDICAL COLLEGE PROJECT


0544C

TEL-LECTURE

ADULT LEADERSHIP 13, P11-2, MAY 1963.

// WISCONSIN-UNIV LACROSSE-STATE-COLLEGE EXTENSION-WIN HIGHER-ED CURRICULUM-ENRICHMENT PRESENTATION-TELEGRAPHY-FILM PROJECT COST EVALUATION-QUESTIONNAIRE LACROSSE-PUBPHONE-CC

AN EXPERIMENT TO EXAMINE THE POTENTIAL EFFECTIVENESS OF TELELECTURES WAS CONDUCTED AT LACROSSE STATE COLLEGE IN WISCONSIN IN MAY 1, 1967. ONE HUNDRED PEOPLE, MAINLY UNDERGRADUATES IN PHYSICAL SCIENCE, ATTENDED A TELELECTURE ON THE NUCLEAR REACTOR GIVEN BY DR. MAX CARSON, 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 DEMONSTRAITED THE NEECESSITY 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 96% PERCENT OF THE RESPONDENTS FELT THE TEL-LECTURE WAS "AS EFFECTIVE AS A LECTURE IN PERSON." THE AUTHOR FELT THAT THIS TECHNIQUE SHOULD NOT REPLACE PERSONAL ATTENDANCE WHERE POSSIBLE. HOWEVER, IT MAY PROVIDE SMALL COMMUNITIES WITH INEXPENSIBLE ACCESS TO VALUABLE RESOURCES AND TO WIDELY ACCLAIMED PERSONS. WH
0544

WHAT'S COMING TOPRACK FROM TODAY'S TELEPHONES

U.S. NEWS AND WORLD REPORT 56, P. 184, MARCH 7, 1969

0547

HURRIN, HARELD

TELEPHONE NETWORK COURSES

EDUCATIONAL SCREEN AND MULTIVISUAL GUIDE 43, P. 128-129, MARCH 1964

0549

NIELS, KEIT C.

LEARNING BY TELEPHONE

CLEAING HOUSE 19, P. 473-9, APRIL 1965

0550

VISUALS FOR TELELECTURE AND CAMPS AUDEO NETWORKS

AUDIOVISUAL INSTRUCTION 14, P. 488-9, JUNE 1964

// MISSOURI STEPHENS-COLLEGE MICHIGAN WESTERN-MICHIGAN-UNIV HIGHER-ED POLITICAL-SCIENCE LEGAL-STUDIES COURThROOM-PROCEEDINGS CCTV

THIS NEWS ARTICLE DESCRIBES THE CURRENT USES OF TELEMUNICATIONS 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 TALK AND QUESTION POLITICAL NOTABLES HAVE PROVIDED STEPHENS' STUDENTS WITH THE EXCITEMENT OF THEIR CONGRESSIONAL POLICIES ALONG WITH THE OBJECTIVE OF THE CLASSROOM. STUDENTS AT THE UNIVERSITY OF MICHIGAN CAN VIEW ACTUAL COURTHROOM PROCEEDINGS VIA CLOSED CIRCUIT TELEVISION. THIS SYSTEM IS ESPECIALLY USEFUL BECAUSE STUDENTS CAN DISCUSS CERTAIN POINTS AS THEY ARISE WITHOUT DISTURBING THE PROCEEDINGS. IF THE JUDGE WISHES TO CLEAR THE COURT, HE SIMPLY TURNS IT OFF AND INSTRUCTS THE DAIRY TO SHUT OFF THE TV CAMERA. CM

0552

WISCONSIN TELEPHONE POC-HUP, STATEWIDE TELEPHONE CONFERENCE

AMERICAN SCHOOL BOARD JOURNAL 117, P. 20, MARCH 1969

// WISCONSIN WASB EDUCATION-ADMINISTRATION EXTENSION-UW ROLL-CALL EVALUATION-SUBJECTIVE

IN FEBRUARY 1967 WISCONSIN SCHOOL BOARD MEMBERS AND ADMINISTRATORS CONFERRED VIA A TELEPHONE LEKUP BETWEEN 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 CENTER OF THE UNIVERSITY OF WISCONSIN, THE CONFERENCE CONSISTED OF REPORTS FROM PARTICIPANTS FELLED BY A ROLL CALL SYSTEM AT ANHither TIME. ROBERT EIBER, WASB PRESIDENT, CALLED THE CONFERENCE "EXTRAORDINARILY SUCCESSFUL." REPORTS RECEIVED BY THE WASB TERMED THE CONFERENCE "EXTREMELY USEFUL" AND PARTICIPANTS UNANIMOUSLY FAVORABLE HAVING MORE SUCH CONFERENCES IN THE FUTURE, FP

0546

0547C

0549C

0550C

0552C

0554C

0546C
RECID INDEX

REVIEWS LESSON FOR ABSENTEE STUDENTS

SCHOOL MANAGEMENT 11:2, P15, FEB 1967

The Alchemy of California's school districts to secondary Education's Title III

ALC: Any school district in Fresno, 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, which now allows high school students to dial into the FRESNO HIGH SCHOOL COURSES via a dial-access tape with federal funds.

*** FINGER, M. W.

THE TECHNIQUE OF TELE-LECTURE

NEW YORK STATE EDUCATION 9(4), P13, MAY 1965

The author describes the planning and presentation of a tele-lecture delivered by Dr. William Magney of the New York State University-College higher-education administration.

Magney describes the planning and presentation of a tele-lecture delivered by Dr. William Magney of the New York State University-College. The lecture included a microphone and speaker for the lecture. The actual seminar included a lecture by Magney and a discussion following. Student response was enthusiastically favorable.

*** MAGNEY, W. J. • RAVISON, ROBERT C. • PRICE, JOHN F.

ELECTRONIC WONDERLAND, MANAGEMENT OF THE FUTURE

NEW YORK STATE EDUCATION 95, P44, APRIL 1968

In the fall of 1967, a team of faculty members of the New York State University-College at New Paltz, New York, experimented with an instructional system that utilized four distinct electronic tools: television, tele-lecture, talk-back, and tele-writing. 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 videotaped presentation on a specific subject. For many weeks, television rather than film was utilized. Following this presentation, an hour-long tele-lecture was given, upon the chosen subject, while a vector electrometer was used as a 'talk-back' discussion followed, which could be heard at both campuses because of a computer-programming workshop designed by the New York Telephone Company. Results based on final exams and final papers indicate that course performance was about the same as it was when the course was given face-to-face. Students' reaction was generally favorable, largely because of the teacher's time-saving characteristics.

*** MEYERS, B. • HAYNE • CURNON, JAN M.

HOMELESS-LESS

AUDIOVISUAL INSTRUCTION 10:3, P1-7, NOV 1968

WATERFALL, IOWA, HOMELESS CHILDREN PRIMARY-ED SECONDARY-ED VISUAL AIDS FIELDTRIP

The program at WATERFALL, IOWA, an itinerant teacher of the homeless, has utilized a home-to-school telephone linkup, involving home-to-school telephone linkup, have been utilized by Mrs. Frances Stryan of WATERFALL, IOWA, an itinerant teacher of the homeless. For teaching elementary and high school students, homeless education is aimed at helping students continue to school at home. The STRYAN VIRTUAL TELEVISION LINKUP, Mrs. Stryan visits homeless students about three times a week. She takes with her a visual aid kit and other instruction material. Occasionally, individual instruction is given. Mrs. Stryan plans to foster social maturity and good use of leisure time as well as intellectual development.

*** SEYMOUR, PANJORE N.

AUDIOVISUALS FOR ELEMENTARY SCHOOLS

INSTRUCTOR 70:1, P154, AUGUST 1969

CABINET-COUNTY WYOMING CECIC LEARNING CENTER MULTIMEDIA-LIBRARY COURSE ENRICHMENT MEDICAL-EDUCATION ELECTRIFICATION VERS

Because of the high cost of remains, Cabot County, WYOMING, educators there felt it most practical to acquire multimedia equipment and instructional materials for loan to Cabot County schools, but it also owns and equates the use of a vector electrometer to the blackboard (VERB). The very system includes overhead projectors which allow remote lecturers to write in conjunction with their telephone lectures. Both the vectors (VERB) and the audio are transmitted via standard telephone lines. The CECIC course enrichment program will attempt to make productive use of the Dead-on-University of COAL broadcast of equal length.

0562C

0564C

0565C

0566C

0568C
TELELECTURE, APPALACHIA'S IN-SERVICE CLASSROOM OF THE AIR
INSTRUCTOR 7N-7, P126, OCT 1968


HARRIS, CORNELIA
DIAL 0 FOR OPERATOR
INSTRUCTOR 7N-7, P425, JAN 1969

THE AUTHOR, 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. PHONE CALLS HELP HIM TO ENLARGE HIS VOCABULARY, USE MORE COMPLEX LANGUAGE PATTERNS, AND ACQUIRE CONCEPTS OF SOCIAL BEHAVIOR. ROLE PLAYING BECOMES SIGNIFICANT AND LESS SELF-CONSCIOUS IN MULTIMEDIA SUPPLEMENTS, INCLUDING BOOKS, FILMSTRIPS, ALBUMS AND POEMS ABOUT TELEPHONES, HAVE BEEN USED BY THIS TEACHER TO BUILD APPRECIATION FOR THE TELEPHONE.

LEWIS, PHILIP
ETV, HOW TO PUT TOGETHER A COMMUNICATIONS SYSTEM, TELELECTURE INSTALLATIONS
AIDE'S SCHOOLS 7N-44, P52, OCT 1969

WEST-VIRGINIA TELELECTURES HELP SIX DISTRICTS CONFER
AIDE'S SCHOOLS 7N-44, P42, OCT 1969

THE WORLD'S FIRST TELELECTURE PROJECT IN SERVICE-ED TEACHER-ED ELECTROWRITER COST TITLE 1

UNDER AN FSA TITLE 1 GRANT, 1200 TEACHERS SERVING IN SIX SPARSELY POPULATED COUNTY SCHOOLS IN EASTERN IOWA ARE RECEIVING IN-SERVICE TRAINING VIA TELEPHONE AND ELECTROWRITER. THE APPLICANTS IS A SIMPLE PHONE CONNECTION. SUPPLEMENTARY NOTES, DRAWINGS AND TRANSPARENCIES ARE TRANSMITTED ON ELECTROWRITERS WHICH FUNCTION AS OVERHEAD PROJECTORS. SUPPLEMENTARY WORKSHOPS AND MEETINGS ARE HELD TO REVIEW THE PROGRAM. TYPICAL COST FOR A ONE AND ONE-HALF-HOUR PROGRAM IS 500 DOLLARS INCLUDING EQUIPMENT COSTS.

DEMPHS, JOHN M.
MULTIMEDIA FIELDTRIP REPLACEMENTS
AUDIOVISUAL INSTRUCTION 12-7, P714-5, SEP 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 SLIDE ROLL PICTURES ARE TAKEN. THESE PICTURES ARE SHOWN ON A REMOTE SLIDE PROJECTOR AND A MULTITHREE PROJECTOR, A FILE 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.

DAVIT, JUSSIN, F.S.C.
THE COMPUTER, TELEVISION AND TELEPHONE AS EDUCATIONAL TOOLS
AUDIOVISUAL INSTRUCTION 13, P108-90, DEC 1968

KODAK OFFERS FACSIMILES BY PHONE
PRINTERS 7N 292, P52, MAY 27, 1966

TELECOMMUNICATIONS KODAK-MAGNAFAX-TELECOMMAG MAGNAFAX-CU LOX COAXIAL-CABLE

THE KODAK MAGNAFAX TELECOPIER, INTRODUCED AND DEMONSTRATED SIMULTANEOUSLY IN NEW YORK AND LOS ANGELES, IS A COPY-TO-COPY COPIER WHICH CONVERTS LIGHT SIGNALS INTO SIGNALS WHICH ARE PICKED UP BY A TELEPHONE RECEIVER, TRANSMITTED, AND RECEIVED IN LIGHT SIGNALS AT THE OTHER END. TRANSMISSION OF AN A 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 POLYCHROME AND IS POWERED BY A STANDARD 110-VOLT OUTLET. TELECOPIER OFFERS FROM LONG-DISTANCE TELECOPIER) IN THAT THE KOEGER COPIER OVER A TELEPHONE LINE, WHILE LOX PRINTS OVER A COAXIAL CABLE.

TELELECTURE, A NEW LOOK
BELL TELEPHONE MAGAZINE 43-2, P45-5, SUMMER 1964
THE MEDICAL SCHOOL OF THE AIR

MEDICAL JOURNAL OF AUSTRALIA 1, 586-71, JUNE 5, 1965


MC DOCTORS KEEP UP

TODAY’S HEALTH 45, 564+, AUGUST 1967

TEACHER EDUCATION THROUGH AN INNOVATION OF MODERN TECHNOLOGY

NATIONAL CATHOLIC EDUCATION ASSOCIATION BULLETIN 69, 253-30, MAY 1969

CONFERENCE ARRANGEMENT FOR NOAC

BELL LABORATORY RECORD 42, 7, 253-7, JULY-AUGUST 1964

NETWORKS - MILITARY-USE

IF THERE IS A RED ALERT OF SCIAL EMERGENCY, THE MILITARY COMMAND POSTS MUST IMMEDIATELY CONTACT MANY ARMY SERVICES OPERATIONAL CENTERS AND ISSUE ORDETS COVERING MILITARY ACTIONS.

THEME INSTRUCTIONS COULD NORMALIY BE ISSUED OVER RADIO FACILITIES, HOWEVER, SINCE THESE CHANNELS MIGHT BE EITHER MONITORED OR JAMMED BY THE ENEMY, A TELEPHONE AUTOMATIC CONFERENCE ARRANGEMENT WOULD PROVIDE AN ALTERNATE MEANS OF TRANSMITTING ORDERS. THIS ARRANGEMENT PERMITS TWO-WAY TRANSMISSION BETWEEN THE COMMAND POST AND THE OPERATIONAL CENTERS WITHOUT REVEALING THE POSITIONS.

THE SYSTEM CAN CONNECT THE CONFERENCE TO ANY TELEPHONE CENTERS, 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 CONFERENCE SYSTEM AND CONCLUDES THAT THE AUTOMATIC CONFERENCE 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 BY TELEPHONE

BELL LABORATORY RECORD 42, 1, 19, JAN 1964

THE APPLICATION OF TELEPHONE EQUIPMENT TO EDUCATIONAL NEEDS IS CAUSING . . . A QUIET REVOLUTION THAT IS CHANGING TRADITIONAL TEACHING CONCEPTS.

THE TELEPHONE TECHNIQUE, ALLOWING A PROFESSOR TO ROLL OVER TELEPHONE CIRCUITS TO OTHER COLLEGES, WHERE IT IS AMPLIFIED AND LED TO MICROPHONES ALLOWS THE STUDENTS TO ASK QUESTIONS.

THE UNIVERSITY OF IDAHO HAS CONDUCTED A SUCCESSFUL EXPERIMENTAL TELELECTURE AND A CONFERENCE DESIGNED TO ACQUISITION OF EDUCATIONAL AND TELEPHONE COMPANY OFFICIALS WITH THE POSSIBILITIES OF TELELECTURE. MANY EDUCATORS HAVE ACCLAIMED IT AS NEW TEACHING TECHNIQUE. IT MAY RELIEVE TEACHER SHORTAGES, AS IT CAN PROVIDE STUDENTS, ESPECIALLY THOSE AT SMALL COLLEGES, WITH INSTRUCTION FROM THE FINEST TEACHING AVAILABLE. THE QUESTION THAT THE USES AND BENEFITS OF TELEPHONE SERVICE ARE AS VARIOUS AS PANTS JARGON.

TIME DIVISION CONFERENCING OF FOUR-WIRE TELEPHONE CIRCUITS

IEEE TRANSACTIONS ON COMMUNICATION TECHNOLOGY 15, 120-1, FEB. 1967

THE SYSTEM DESCRIBES A SYSTEM FOR CONFERENCING UP TO SEVERAL HUNDRED TELEPHONE CIRCUITS, WITH SUFFICIENT RETURN LOSS TO PREVENT UNOBJECTABLE PSEERING EFFECTS. THE CTES AND PROBLEMS OF ECHO IN SUCH CONNECTIONS ARE DISCUSSED, AS WELL AS THE ADVANTAGES AND LIMITATIONS OF OTHER METHODS USE FOR CONFERENCING THIS SITUATION. THE METHOD DESCRIBED USES A TIME-DIVISION ECHO TREATMENT SCHEME WITH A SIMPLE COMMON-BOUN CONFERENCING TESTING. EACH TRANSMIT LINE IS SAMPLED AT THE HIGHEST RATE DURING WHICH TIME ITS CORRESPONDING RECEIVE LINE IS DISCONNECTED FROM THE SYSTEM FOR THE DURATION OF THE SAMPLE TIME. THE RESULTING IN ECHO EXIT IS CONNECTED BACK TO THE CONFERENCE BUS. TO DEMONSTRATE FEASIBILITY, A WORKING SYSTEM IS DESCRIBED WHICH PROVIDES A SUFFICIENT RETURN LOSS OF AT LEAST 50 OR BELOW TRANSMISSION LEVEL WHEN THREE OUT OF A POSSIBLE 20 TELEPHONE LINES ARE CONFERENCED.

THE USE OF LARGE, LONG DISTANCE CONFERENCES IS BECOMING MORE IMPORTANT IN WORLDWIDE VOICE AND DATA COMMUNICATIONS FOR MILITARY AND SPACE PURPOSES, AND SATELLITE LINKS COULD INTRODUCE AND RECTIFY TRANSFER DELAYS EVEN FOR RELATIVELY SHORT TERMINAL SEPARATIONS. SINCE THIS SYSTEM FEATURES THE COMBINATION OF LARGE CAPACITY, HIGH QUALITY, AND INEXPENDABLE TRANSMISSION Delays, IT IS DESIRABLE FOR SUCH APPLICATIONS. IT APPEARS TO BE A USEFUL SOLUTION TO THE PROBLEMS ENCOUNTERED WITH TELEPHONE CONFERENCING FOR VOICE OR FULL-DUPLEX DATA.

AUTHOR’S ABSTRACT WITH NUTE ADDED BY LC.
A MULTIPORT TELEPHONE CONFERENCE BRIDGE

IEEE TRANSACTIONS ON ELECTRONICS TECHNOLOGY 16,1, P168-72, FEB 1968
// NOSAC NETWORKS ECHC SWITCHED-GAIN-AMPLIFIER FOUR-WIRE

*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 DESIGNED. 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 TW-WIRE SUBSCRIBERS ARE CONNECTED TOGETHER, THE SUM OF THE RETURNING ECHOS IS SUBSTANTIALLY INCREASED. 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 CASE 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 ELECTRONICS TECHNOLOGY 16,1, P163-7, FEB 1968
// NOSAC NETWORKS ECHC SWITCHED-GAIN-AMPLIFIER FOUR-WIRE

* A GENERAL DISCUSSION OF THE TRANSMISSION PROBLEMS INVOLVED IN TELEPHONE CONFERENCE SYSTEMS DUE TO NOISE, ECHO, AND ECHO. THE APPLICATION OF VOICE SWITCHED LOSS SEEMS TO BE THE BEST WAY TO AVOID THESE DIFFICULTIES. THE NECESSITY OF USING A SIMULTANEOUS TALKING TYPES OF CONFERENCE CONNECTIONS ARE DISCUSSED. THE IMPORTANCE OF THE THREE OR MORE TELEPHONES ARE CONNECTED TOGETHER, AND SECOND, WHEN GROUPS OR PEOPLE AT TWO OR MORE LOCATIONS TALK BACK AND FORTH USING MICROPHONES AND LOUDSPEAKERS. RECENT WORK DEDICATED TO PROVIDE SUBSTANTIAL 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, P112-3, SEP 1964

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

GRADUATE TEACHING BY TELEPHONE AND RADIO

JOURNAL OF ECONOMICS 51, P443-7, JUNE 1969

STUDENTS VISIT VIA SATELLITE

AERIAL JOURNAL, P6-13, MAY-JUNE 1966

FIRST INTERCONTINENTAL TV CLASSROOM

AMERICAN SCHOOL JOURNAL 141, P29+, SEPT 1965

* FIRST INTERCONTINENTAL TV CLASSROOM


U.S. ARMY

COMMUNICATIONS, TELEPHONE AND TELEPHONE CONFERENCES

SECRETARY'S REGULATIONS NO. 105-40. WASHINGTON, HEADQUARTERS. DEPARTMENT OF THE ARMY, 1967
4011A

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INDIVIDUALIZATION OF THE INSERVICE PROGRAM FOR PROFESSIONAL STAFF

WAUSAU, WISCONSIN, JOINT SCHOOL DISTRICT 1 PROJECT NUMBER DPSC-67-3560. TOP. PAGE ES 001 489

// WAUSAU WISCONSIN TEACHER-EC EDUCATION-ADMINISTRATION ELECTROWRITER

INSERVICE TRAINING 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 IMPLANTED THROUGH THE USE OF AMPLIFIED TELEPHONE RECEIVERS AND REMOTE BLACKBOARD TELEWRITERS IN A CENTRAL CONFERENCE ROOMS 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 ADMINISTRATOR DEVELOPMENT ORIENTATION PROGRAM COVERING ORIENTATION AND INTERNSHIPS; 2) STUDIES ON CURRICULUM POLICIES AND PROCEDURES FOR ANALYSIS, DESIGN, AND DEVELOPMENT OF CURRICULUM AND 3) A WORKSHOP EXPERIMENTATION OF CHANGE AND INERVICE EDUCATION AS A PART OF THE PROFESSIONAL DAY. CHANGE WILL BE IMPLEMENTED THROUGH A NEW DESIGN FOR STAFF UTILIZATION INCLUDING TEACHING TEAMS FOR EACH PERFORMANCE LEVEL IN THE ELEMENTARY SCHOOLS. A TEACHER FROM EACH TEAM WILL SERVE AS A LIAISON WITH THE ADMINISTRATIVE STAFF. TEACHER AIDES OR PARAPROFESSORS WILL BE INCLUDED TO ALLOW THE FLEXIBILITY NEEDED 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 SCHOOL WILL DETERMINE TRAINING NEEDS FOR THE PROGRAM AND ACT AS A LIAISON FOR INTERDISTRICT COORDINATION. APPROXIMATELY 800 STAFF MEMBERS WILL BE INVOLVED IN THE PROGRAM AND 16,021 STUDENTS WILL BE SERVED. (MC). PAGE

4016A

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A SITUATION TEST OF TRAINING EFFECTIVENESS

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

// VOCATIONAL-EC ADULT-ED MULTIMEDIA-INSTRUCTION EVALUATION


4015A

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EDUCATION INCORPORATED. CHARLESTON, WEST VIRGINIA * BROWN, SANDRA M.

HEAD-START TELELECTURE PROJECT, A FEASIBILITY STUDY TO ASSESS THE POTENTIAL OF TELELECTURE AS A MEDIUM FOR IN-SERVICE TEACHER TRAINING IN APPALACHIA

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

// WEST VIRGINIA EDUCATION-INC EVALUATION BIBLIOGRAPHY

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

4016C

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KLUCKMAN, EDGAR

PROJECT EAR, EDUCATIONAL AMATEUR RADIO

OCTOBER 1966. MMEP. 19P

// HARRISON NEW YORK LUMIBOC ECUADOR INTERNATIONAL-TELECONF CROSS-CULTURAL-TELECONF PRIMARY-EC CURRICULUM-SKILLS-ENRICHMENT COMMUNICATION-SKILLS INTERNATIONAL-EDUCATIONAL-NETWORK

SPEAKERPHONE AMATEUR RADIO TRANSMISSION WAS EXPERIMENTED DURING THE 1964-65 SCHOOL YEAR TO LINK HARRISON AVENUE ELEMENTARY SCHOOL IN HARRISON, NEW YORK WITH A RURAL SCHOOL IN LUMIBOC, 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 THERE 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. KLUCKMAN STRESSES THE NEECESSITY OF OBTAINING THEIR PARTY TRAFFIC WAVERS 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 GODSTFF LF EVERY CLASSROOM...'. (WH)

4018A

**

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

WASHINGTON, LIBRARY OF CONGRESS. INFORMATION SYSTEMS OFFICE, 1967. 20P. ERIC ED 016 492

// TELECOPIER XEROX-MACNAISH-TELECOPIER LOD BIBLIOGRAPHY

FIVE SYSTEMS, ALL OF WHICH HAVE BEEN INVESTIGATED OR ARE INVESTIGATING THE USES OF FACSIMILE EQUIPMENT AS APPLIED TO LIBRARIES, ARE SURVEYED. THE EQUIPMENT OF EACH PROJECT, INCLUDING NECESSARY COMMUNICATION LINKS, AS WELL AS THE RESULTS, IS DESCRIBED, AS WELL AS THE RESULTS, IF TELEFACSIMILE IS TO BE USEFUL, A NEED FOR A CHANGE IN SOME INTERLIBRARY LOAN PROCEDURES IS INDICATED. ON CAN CONCLUDE THAT FACSIMILE TRANSMISSION IS TECHNICALLY AND ECONOMICALLY FEASIBLE FOR MANY LIBRARY SYSTEMS, EVEN THOUGH ROUND VOLUMES STILL CANNOT BE HANDLED BY PRESENT EQUIPMENT AND 23 THAT CURRENT DEVELOPMENTS AND PLANNING BY MANUFACTURERS WILL MAKE FACSIMILE TRANSMISSION EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE.

4018A

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SCHWARTZ, SHARON

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

WASHINGTON, LIBRARY OF CONGRESS. INFORMATION SYSTEMS OFFICE, 1967. 20P. ERIC ED 016 492

// TELECOPIER XEROX-MACNAISH-TELECOPIER LOD BIBLIOGRAPHY

FIVE SYSTEMS, ALL OF WHICH HAVE BEEN INVESTIGATED OR ARE INVESTIGATING THE USES OF FACSIMILE EQUIPMENT AS APPLIED TO LIBRARIES, ARE SURVEYED. THE EQUIPMENT OF EACH PROJECT, INCLUDING NECESSARY COMMUNICATION LINKS, AS WELL AS THE RESULTS, IS DESCRIBED, AS WELL AS THE RESULTS, IF TELEFACSIMILE IS TO BE USEFUL, A NEED FOR A CHANGE IN SOME INTERLIBRARY LOAN PROCEDURES IS INDICATED. ON CAN CONCLUDE THAT FACSIMILE TRANSMISSION IS TECHNICALLY AND ECONOMICALLY FEASIBLE FOR MANY LIBRARY SYSTEMS, EVEN THOUGH ROUND VOLUMES STILL CANNOT BE HANDLED BY PRESENT EQUIPMENT AND 23 THAT CURRENT DEVELOPMENTS AND PLANNING BY MANUFACTURERS WILL MAKE FACSIMILE TRANSMISSION EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE. EVEN MORE SATISFACTORY IN THE FUTURE.
RECID INDEX

4019A

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

COLUMBIA, MISSOURI, STEPHENS COLLEGE, 1964. 26P. ERIC ED 012 621

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

STEPHENS COLLEGE USED SEVERAL NEW INSTRUCTIONAL DEVICES IN INTRODUCING TWO INTER-INSTITUTIONAL COURSES, "THE UNDERGRADUATE COLLEGE, 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 PREEMINENT LITERARY FIGURES AND STUDENTS AT ALL THE PARTICIPATING COLLEGES. STUDENTS EVALUATING THE GENERALLY VERY SUCCESSFUL COURSE EXPRESSED A DESIRE FOR MORE DEPTH AND LESS DRASTIC 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. (ADA) ERIC

4020A

** JCLY, JAC ** MADEWN, CHARLES F.

AMPLIFIED TELEPHONE AS A TEACHING MEDIUM

COLUMBIA, MISSOURI, STEPHENS COLLEGE REPORT NUMBER SC-EDUC-REP-1, MARCH 1965. 95P. ERIC ED 012 630

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

A GRANT TITLING $8,400 CAME 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 JAC 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 PRESIDENT 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. (ADA) ERIC

4021A

DEVELOPMENT OF A STANDARDIZED TELEPHONE INTERVIEW FOR THE MEASUREMENT OF LANGUAGE CHANGES IN YOUNG CHILDREN

NEW YORK, NEW YORK UNIVERSITY, INSTITUTE FOR DEVELOPMENTAL STUDIES, 1960. 42P. ERIC ED 022 75B

1. EVALUATION-CONTROL-GROUP

TELEPHONE INTERVIEWS DESIGNED TO ELICIT OPEN-ENDED RESPONSES FROM DISADVANTAGED KINDERGARTEN CHILDREN WERE TAPE-RECORDED, 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. (ADA) ERIC

4022A

TUCKER, THOMAS T. (AND OTHERS)

SEMINAR ON AMPLIFIED TELEPHONE: A REPORT AND EVALUATION

RENO, NEVADA UNIVERSITY, NEVADA WESTERN STATES SMALL SCHOOLS PROJECT, CARSON CITY, 1968. 1AP. ERIC ED 022 360

1. WILHRED-STATES-SMALL- SCHOOLS-PROJECT NEVADA-UNIV INSERVICE-ED TEACHER-ED EVALUATION

ART BY TELEPHONE
RENO, NEVADA UNIVERSITY, NEVADA WESTERN STATES SMALL SCHOOLS PROJECT, CARSON CITY, 1966. 13P.
ERIC ED 025 359

// 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 4022, 4519 AND 4715. ERIC

RADIO LISTENING EDUCATIONAL STYLE
PRINTER’S INK 292, P35, MAY 27, 1966

// CORRESPONDENCE-ED HOME-STUDY PROGRAMMED-INSTRUCTION PROGRAMMING INTERACTIVE-FM-RADIO FM-RADIO MULTIPLEXING EDUCASTING-SYSTEMS-SYNTH Sylvania

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 PROGRAMMED BY INTERNATIONAL CORRESPONDENCE SCHOOLS OF SCRANTON, PENNSYLVANIA, EVERY 10 OR 16 TIMES 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 EXPAINED. 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

RELAYS FOR EVERY APPLICATION SHOWN
BROADCASTING 70, CH 4, APRIL 11, 1966

OHIO MEDICAL EDUCATION NETWORK 1949-1970
PAPER RECEIVED FROM THE CENTER FOR CONTINUING MEDICAL EDUCATION, OHIO STATE UNIVERSITY, JAN 1970.
3P

// OHIO OHIO-STATE-UNIV KENTUCKY WEST-VIRGINIA CONTINUING-ED MEDICAL-ED FM-RADIO TV

CONCEIVED IN 1941, THE OHIO MEDICAL EDUCATION NETWORK (OMEN) IS MADE UP OF A DOZEN FM RADIO STATIONS AND 60 HOSPITALS IN OHIO, KENTUCKY AND WEST VIRGINIA. FIVE TIMES EACH WEEK AT 12 NOON, PROGRAMS ARE BROADCAST WHICH ARE ’LIVE’ TWO-WAY DISCUSSIONS BETWEEN HOME-COMMUNITY DOCTORS AND MEDICAL SCHOOL DEPARTMENTS ON SUBJECTS VITAL TO CONTINUING MEDICAL EDUCATION. ACTIVITIES HAVE BEEN BROADENED TO INCLUDE NURSING TOPICS AND THE USE OF TELEVISION. ON

THREE YEARS EXPERIENCE WITH TWO-WAY RADIO CONFERENCES
NEW YORK STATE JOURNAL OF MEDICINE 58,20, P3323-5, OCT 15, 1955

TWO YEARS EXPERIENCE WITH TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION
JOURNAL OF MEDICAL EDUCATION 35,4, P477-82, JUNE 1958
4051C
WOLSEY, FRANK M., JR.

TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION, FOUR YEARS OF EXPERIENCE WITH A NEW METHOD OF PRESENTATION

CANADIAN MEDICAL ASSOCIATION JOURNAL 82, P717-9, APRIL 2, 1960

// ALBANY NEW YORK BOSTON MASSACHUSETTS BURLINGTON VERMONT NEW HAVEN CONNECTICUT HARVARD YALE ALBANY-MEDICAL-COLLEGE TuFTS VERMONT-COLLEGE-OF-MEDICINE CONTINUING-ED MEDICAL-ED RADIC VISUAL AIDS COST

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 TRANSFER AT THE HIGHEST MOUNTAIN IN MASSACHUSETTS. TOPICS ARE ANNOUNCED IN ADVANCE AND PROGRAMS ARE AURED FROM 12 NOON TO 1 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 VARIOUS 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. FK

4052
EBBERT, ARTHUR JR.

TWO-WAY RADIO IN MEDICAL EDUCATION

THE JOURNAL OF MEDICAL EDUCATION 30, 3, P319-28, APRIL 1963

4054C
VICTOR COMPTOMETER CORPORATION

IOWA TEACHERS LEARN MATH VIA VRR

VICTOR COMPTOMETER CORPORATION. BROCHURE. RECEIVED JAN 1970

NORTHWEST-IOWA-TELEREPORTER-PROJECT CEDAR-FALLS STATE-COLLEGE-OF-IOWA CHICAGO URBANA ILLINOIS-UNIV INSERVICE-EO TEACHER-ED ELECTROWRITER

IN THE WINTER OF 1965, THE NORTHWEST IOWA ELECTROWRITER PROJECT USED VICTOR'S ELECTROWRITER REMOTE BLACKBOARD (VBB) 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

4060
AFRORACE ENGINEERS ATTEND GRADUATE SCHOOL BY REMOTE CONTROL

TRAINING IN BUSINESS AND INDUSTRY 5, 1, P41, JAN 1968

4062C
HIGH-SCHOOL INSTRUCTION VIA TELEPHONE LINES

EDUCATIONAL TECHNOLOGY 7, 23, P9-10, DEC 15, 1967

TEXAS-A&M-UNIV CATE SECONDARY-ED CURRICULUM-ENRICHMENT MATHEMATICS PHYSICS ENGLISH-LANGUAGE ELECTROWRITER VISUAL AIDS LEASED-LINES SYLVANIA

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 THREE DISTRICTS WITHIN A 70 MILE RADIUS. THE ELECTRONIC BLACKBOARD-BY-WIRE PROVIDES MATHEMATICS, PHYSICS AND ENGLISH LESSONS AS A SUPPLEMENT TO CONVENTIONAL CLASSROOM TEACHING. MATERIALS PREPARED 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. WK

4063C
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 SUBSIDARIES, 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. FK

4064
MEYER, THOMAS C.

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

JOURNAL OF MEDICAL EDUCATION 42, 4, P374, SEPT 1967
RECME INDEX

4065C

*** PAULSEN, ROBERT L.

TEL-A-LECTURE TECHNIQUE

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 42:4, P316-7, JUNE 1969

// IOWA MALCOLM PRICE-LAB SCHOOL AUDIO-VISUAL-ED ASSOC-OF-IOWA VISUAL AIDS COST

THIS ARTICLE IS A DESCRIPTION OF THE USES AND DEVELOPMENT OF THE TEL-A-LECTURE TECHNIQUE. IT CONSISTS OF HAVING AN AMPHLETT 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 EXTREMELY IMPORTANT IN PRESENTATION AND 5) SAVINGS OF TIME AND MONEY ARE FACTORS THAT CANNOT BE NEGLECTED IN THE CASE OF THIS DEVICE. TM

4067C

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TELELECTURE

RLL TELEPHONE COMPANY, 2EP

// DESCRIPTION-TELELECTURE

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, COMMUNICATION REQUIREMENTS, AND ADVANTAGES OF THE METHOD. TM

4068

*** WCULSEY, FRANK M., JR.

TWO-WAY RADIO AND ITS ADVANTAGES

ANNALS OF THE NEW YORK ACADEMY OF SCIENCE 142:2, P24-7, MARCH 31, 1967

4110A

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ELEMEN TARY TEACHERS RECEIVE IN-SERVICE INSTRUCTION VIA 'TELELECTURE'

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

// NORTWEST-IOWA-TELEWRITER-PROJECT IOWA-UNIV TEACHER-ED MATHEMATICS ELECTRONICWRITER EVALUATION

*INFORMATION IS AVAILABLE FROM THE COLLEGE OF EDUCATION, UNIVERSITY OF IOWA, CONCERNING THE NORTWEST-IOWA TELEWRITER PROJECT, AN INSERVICE 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

4111A

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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 HUB OF THE CONTROL NETWORK. THROUGH DIRECT RECEIPT OF 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 INTERCONNECTED LAND LINES TO APPROACH 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, TWIN NETWORKS ARE REQUIRED TO PROVIDE SERVICE TO THE PARTICIPATING SCHOOLS. ONE NETWORK IS LOCATED IN NORTHEASTERN OHIO AND THE SECOND ONE SERVICES SCHOOLS CLUSTERED IN THE CENTER OF THE STATE. THE TOPICS FOR DISCUSSION ON THE RADIO-TELEPHONE NETWORK HAVE BEEN CHosen BY SCHOOL ADMINISTRATORS OR THEIR REPRESENTATIVES AND THE NEEDS OF SCHOOL PEOPLE AS SEEN BY THESE WHO 日 MUST MEET INSTRUCTIONAL PROBLEMS IN THE FIELD. FOR FURTHER INFORMATION, CONTACT PROFESSOR WILLIAM B. MCGRIDE, ASSISTANT DEAN, COLLEGE OF EDUCATION, OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210.* CIC
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 RANGE FROM ELEMENTARY JAPANESE TO A FULL-LENGTH PRESENTATION OF HAMLET STARRED BY 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 RAISING 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, HUGGING 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 FARED 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 CASKET-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 PINSKIE, DIRECTOR, LISTENING CENTER, 63 DENNEY HALL, 164 W. 17TH AVENUE, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210. SEE 4116. CIC. EDITED FOR LENGTH BY K5

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 INTUKINTERIVERSITY-COOPERATION TV

EXTENSION CAMPUSES PCSE PROBLEMS OF INSTRUCTIONAL COORDINATION AND THE SHARING OF INSTRUCTIONAL RESOURCES THAT ARE DIFFICULT TO SOLVE. RECOGNIZING THIS, PURDUE UNIVERSITY HAS UNTERTAKEN 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 COMMUNICATION SYSTEMS, THE UNIVERSITY'S REPRESENTATIVES HAVE TRACED PAST GROWTH IN ENROLLMENTS, INSTRUCTIONAL TELEVISION, EXTENSION CAMPUS 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 TO THE EXTENSION CAMPUSES IN INDIANAPOLIS, BLOOMINGTON, AND MICHIGAN CITY. 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 locally 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. HILES, DIRECTOR OF THE TELEVISION UNIT, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907. CIC. EDITED FOR LENGTH BY K5

CFF-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 WEIGHT-PATTERSON-GRADUATE-CENTER GRADUATE-ED TV

* TV LINK WITH A TWO-WAY AUDIO CHANNEL HAS BEEN ESTABLISHED BETWEEN OHIO STATE'S CENTRAL CAMPUS IN COLUMBUS AND THE WEIGHT-PATTERSON GRADUATE CENTER AT DAYTON. PREVIOUSLY, ALL INSTRUCTION AT WEIGHT-PATTERSON WAS CONDUCTED BY TRAVELING FACULTY FROM THE CENTRAL CAMPUS. GRADUATE COURSES REGULARLY OFFERED WERE INSTRUCTED AT DAYTON WHEN THE DEMAND JUSTIFIED THE EXPENSE IN TIME AND TRAVEL. WITH THE ESTABLISHMENT OF THE TV LINK THE GRADUATE CURRICULUM CAN BE READILY EXPANDED. SELECTED COURSES FROM THE CENTRAL CAMPUS ARE SIMULTANEOUSLY TELECAST AT THE SAME TIME THAT THEY ARE BEING TAUGHT IN DAYTON. THE VIDEO LINK IS MADE AS NATURAL AS POSSIBLE WITH NO 'TALENT' REQUIRED OTHER THAN THE PROFESSOR. ABOUT 4 FEET OF BLACKBOARD SPACE IS TRANSMITTED AT A TIME. THE CAMERA IS MOUNTED ON A FUTURAT THAT IT MIGHT SELECT ANY ONE OF SEVERAL BLACKBOARD PANELS FOR TRANSMISSION. A TWO-WAY AUDIO CHANNEL ALLOWS THE STUDENT AT DAYTON THE SAME PRIVILEGE (SIC) OF INTERACTION WITH QUESTIONS OR COMMENT THAT HE MIGHT HAVE IF HE WERE SITTING WITH THE CLASS IN COLUMBUS. THE REACTIONS OF STUDENTS AND PROFESSORS ALIKE HAVE BEEN GOOD. FOR FURTHER INFORMATION CONTACT PROFESSOR JOHN D. COHAN, DEPARTMENT OF ELECTRICAL ENGINEERING, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210* CIC
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.

// ILLINOIS-UNIV GRADUATE-ED LIBRARY-SCIENCE VISUAL AIDS MAILED-MATERIALS WATS

A LIBRARY SCIENCE COURSE IN CATALOGUING AND CLASSIFICATION IS BEING TAUGHT VIA TELE-LECTURE AT THE UNIVERSITY OF ILLINOIS AS A RESULT OF COLLABORATION BETWEEN AN INSTRUCTOR AND A MEDICAL SPECIALIST. SINCE A GREAT DEAL OF THE INSTRUCTIONAL MATERIAL IN A CLASSIFICATION AND CATALOGING COURSE IS VISUAL, THE 2 BY 3 SLIDE MEDIUM WAS SELECTED. SLIDES ARE MAILED TO A PRECINCT AT THE CLASS LOCATION (ROCK ISLAND ARSENAL). THE SYSTEM'S HARDWARE INCLUDES A BELL-TELEPHONE TELE-LECTURE UNIT, A SPEAKER PHONE FOR THE INSTRUCTOR AND A CAROUSEL PROJECTOR LOCATED IN THE REMOTE CLASSROOM. SINCE THE UNIVERSITY WIDE TELEPHONE SERVICE (WATS) LINES WERE USED, THERE WERE NO TELEPHONE CHARGES. THE INSTRUCTOR MET WITH THE STUDENTS IN PERSON FOR THE FIRST MEETING. SUBSEQUENTLY THE SEQUENCE OF A NORMAL EVENING CLASS WAS AS FOLLOWS. THE INSTRUCTOR WENT TO A CAMPUS LOCATION WHERE THE SPEAKER PHONE WAS LOCATED, SET UP AN 8 BY 10 CARD WITH PHOTOS OF STUDENTS, ORGANIZED THE LECTURE NOTES AND THE SLIDE SEQUENCE PREVIOUSLY MAILED TO THE STUDENT LOCATION, THEN DIALED THE TELEPHONE NUMBER SEVERAL MINUTES IN ADVANCE OF CLASS TIME TO PERMIT THE PRECINCT TO ADJUST THE VOLUME. THE TELE-LECTURE UNIT IS EQUIPPED WITH TWO MICROPHONES WHICH PERMIT STUDENTS IN THE AUDIENCE TO ASK QUESTIONS AT ANY TIME. DURING THIS COURSE, STUDENTS DISCUSSED PROBLEMS WITH THE INSTRUCTOR BEFORE AND AFTER CLASS, DURING THE NORMAL CLASS PRESENTATION AND DURING CLASS BREAKS. REPORTS TO DATE INDICATE THAT STUDENTS AND INSTRUCTORS ARE SATISFIED WITH THE MEDIUM AND THE MANNER IN WHICH THE COURSE IS PRESENTED.

FURTHER INFORMATION MAY BE OBTAINED FROM DR. ANNE R. KNOX, DEAN OF THE GRADUATE SCHOOL OF LIBRARY SCIENCE AT THE UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS. CIC. EDITED FOR LENGTH BY KS

EAIL-ACCESS VIDEO AND AUDIO LEARNING SYSTEM

ABSTRACT ON PAGE 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.

// COLUMBUS OHIO-STATE-UNIV HIGHER-ED LEARNING-CENTER BIOLOGY CHEMISTRY COMPUTER TV HOME-STUDY

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 RECEIVERS INTO THE SYSTEM WHICH PREVIOUSLY BROUGHT ONLY AUDIO TO STUDENTS AT REMOTE POINTS ON THE CAMPUS AND IN THE UNIVERSITY AREA (SEE 4112). THE LISTENING CENTER'S 24 8 X 10 VIDEO RECEIVERS HAVE BEEN CONVERTED INTO THE VISUAL FIELD. EACH RECEIVER PROVIDES 9-INCH TELEVISION RECEIVERS IN STUDENT HOMES ALSO EQUIPPED WITH HEADSETS. STUDENTS MAY DON HEADSETS AND OBTAIN THE AUDIO PORTION OF AN INSTRUCTIONAL MATERIAL 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. THE SYSTEM'S 18 VIDEO PROGRAM SOURCES INCLUDE THOSE OF THE DEPARTMENTS OF BIOLOGICAL SCIENCES AND CHEMICAL ENGINEERING, AND THE TELEVISION EXPERIMENTAL PERIOD. THESE TWELVE DEPARTMENTS ARE SHOWING 159 PROGRAMS, 157,260 VIEWS TO THEIR STUDENTS, AND ARE VERY ENTHUSIASTIC ABOUT THE ADDED VISUAL. THE SYSTEM ALLOWS THEM TO MORE EFFECTIVELY TEACH THESE TOPICS. THE INITIAL OPERATION IS EXPECTED TO GENERATE ADDITIONAL PROFESSIONAL MATERIAL AND TO PROVIDE INFORMATION ON USE OF THE VIDEO EQUIPMENT. FOR FURTHER INFORMATION CONTACT DR. PAUL PENSEL, DIRECTOR, LEARNING CENTER, 411 W. COLUMBUS, 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. 3, SPRING 1969.

// INDIANA-UNIV PURDUE-UNIV BLOOMINGTON-UNIV PHARMACEUTICAL ASSOCIATION CONTINUING-ED CURRENT-AWARENESS PHARMACEUTICALS TV

MULTIMEDIA INSTRUCTION IN EXTENSION

ABSTRACT ON PAGES 2A-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 ELECTRONIC AND VOICE COMMUNICATION VIA A SPECIAL LOOP CALLED UNIVER (FOR UNIVERSITY EXTENSION) LINES IN AN EXPERIMENTAL TEACHING APPROACH. THESE LINES, DURING ACADEMIC 1968-69, TIE INTO CLASSROOMS IN OCEANA, FREEPORT, MALTA, QUINCY, RODAM, ROCK ISLAND-MOLINE, SPRINGFIELD, CHAMPAIGN-URBANA, AND SOUTH BELoit. PRINCIPAL GOALS OF THE EFFORT ARE 1) TO ASCERTAIN TYPES OF SUBJECT MATTER AND COURSES THAT CAN BE PROFITABLY 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 MATERIAL IS 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 GARY STANLEY ROBINSON, DIVISION OF UNIVERSITY EXTENSION, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS, 61801. EDITOR FOR LENGTH BY KS

RADIO MEDICAL ASSISTANCE AND RESCUE

JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 204, P556, MAY 6, 1968

THE INTERNATIONAL RADIO MEDICAL CENTER (ICRM) IS A FOUNDATION ESTABLISHED IN ROME IN 1935 FOR THE PURPOSE OF GIVING FREE ASSISTANCE AND MEDICAL ADVICE BY RADIO TO SEAMEN OF ALL NATIONALITIES AND TO THE INHABITANTS OF THE SMALL ISLANDS OF THE MEDITERRANEAN. THE CENTER HAS BEEN ABLE TO COOPERATE WITH THE HELP OF ITALIAN AND FOREIGN ORGANIZATIONS A FAST NETWORK OF INTERNATIONAL TELECOMMUNICATIONS THAT ALLOWS IT TO GIVE ASSISTANCE IN ANY PART OF THE OCEAN. ALL RADIO MEDICAL SERVICES OF ICRM AS WELL AS TRANSPORT AND RESCUE ARE FREE OF CHARGE. * ON

MEDICAL RADIO CONFERENCES

CALIFORNIA MEDICINE 104, P141, FEB 1966

THE MEDICAL SCHOOL-OF-MEDICINE MEDICAL-ED POSTGRADUATE-ED LEARNING-CENTER DISSEMINATION-OF-INFORMATION

IN 1961, 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 DISSEMINATE THE LATEST MEDICAL DEVELOPMENTS TO PHYSICIANS UNABLE TO ATTEND THE FORMAL POSTGRADUATE COURSES. THESE BROADCASTS DISSEMINATE INFORMATION INEXPENSIVELY TO A LARGE AUDIENCE AND SAVE TIME FOR MANY CALIFORNIA PHYSICIANS IN CULVERTING 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. FK

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 PRESERVING 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-POST-TEACHING CONFIDENCE, A CRITIQUE FORM TO MEASURE IMPROVEMENT OF A SPECIFIC TEACHING SKILL, AND A RATINGS 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. ALL METHODS REQUIRED 6 HOURS MORE PER STUDENT TEACHER. THIS PH.D. DISSERTATION WAS SUBMITTED TO THE OHIO STATE UNIVERSITY. IJRA. ERIC
PLANNING A SUPPLEMENTARY EDUCATIONAL CENTER AND FOR CONTINUING SERVICES WITH PILOT PROJECTS AND OPERATIONAL PROGRAMS FOR WESTERN SOUTH-DAKOTA

RAPID CITY, SOUTH DAKOTA, GOPISAS INDEPENDENT SCHOOL DISTRICT 1, PROJECT NUMBER DPS5-66-2221, 146P. PAGE E 000 656

// IN-SERVICE-EDUCATION ADMINISTRATION LEARNING-CENTER PROGRAMMED-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 PROGRAMMED 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 PROVIDE 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, GRACES AND POISE, AND IMPROVE PHYSICAL FITNESS. THE 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 IN-SERVICE TRAINING, INCLUDING A Formal TRAINING PROGRAM FOR COUNTY SUPERINTENDENTS AND A BASIC SKILLS WORKSHOP FOR TEACHERS. APPROXIMATELY 45,706 STUDENTS WILL BE SERVED. (J.E.) PAGE E 000 656

CARBON-COUNTY COORDINATED INSTRUCTION CENTER

RAWLINS, WYOMING, CARBON COUNTY SCHOOLS PROJECT NUMBER DPS5-76-803. 45P. PAGE E 000 985

// WYOMING CCIC REGIONAL CENTER LEARNING-CENTER PRIMARY-ED SECONDARY-ED TEAM-TEACHING PROGRAMMED INSTRUCTION EXTENSION TEACHERS ELECTRONIC-EDUCATION AUDIOVISUAL-EDUCATION CENTER

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 ELECTRONIC REMOTE BLACKBOARD SYSTEM. RECEIVING AND TRANSMITTING UNITS FOR THE ELECTRONIC REMOTE BLACKBOARD SYSTEM 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 AND TRANSMITTING UNITS LINKED TO THE CENTER. A 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 ELECTRONIC-EDUCATION CENTER 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 4,296 ELEMENTARY AND SECONDARY STUDENTS WILL BE SERVED. (L.J.) PAGE E 000 985

SPECIAL EDUCATION SERVICE CENTER

DOWNEY, CALIFORNIA, DOWNEY UNIFIED SCHOOL DISTRICT. PROJECT NUMBER DPS5-68-5949. 56P. PAGE E 002 566

// DOWNEY CALIFORNIA HOMEBOUND CHILDREN PRIMARY-ED SECONDARY-ED TEACHER-ED ORDER INSTRUCTIONAL MATERIALS CENTER

A PROGRAM OF TELECLASS TEACHING WILL BE ESTABLISHED FOR PHYSICALLY HANDICAPPED, HOMEBOUND STUDENTS FROM 13 PARTICIPATING DISTRICTS. MULTIDISTRICT PROGRAMS OF IN-SERVICE EDUCATION. DEMONSTRATION TEACHING AND MATERIALS DEVELOPMENT FOR SPECIAL EDUCATION TEACHERS WILL BE PROVIDED. FIVE PROJECTS ARE DESIGNED IN THE CENTER: 1) A MULTIDISTRICT PROGRAM OF TEACHERS FOR PHYSICALLY HANDICAPPED, HOMEBOUND STUDENT; 2) A CONTINUING PROGRAM OF IN-SERVICE EDUCATION ON AN INSTRUCTECART BASE FOR PROFESSIONAL AND SEMIPROFESSIONAL PERSONNEL 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 A LEARNING CART FOR STUDENTS WITH DEAFNESS; 5) HOMEBOUND CHILDREN IN AREAS OF DISABILITY WHERE ENROLLMENTS ARE SUFFICIENT TO JUSTIFY INSTRUCTECART BASED TEACHING. APPROXIMATELY 5,492 STUDENTS, GRADES 1-12, WILL BE SERVED. (J.L.) PAGE E 002 566

PEDIC, A COOPERATIVE VENTURE IN CONTINUING MEDICAL EDUCATION

MARYLAND STATE MEDICAL JOURNAL 14, P 90-3, MARCH 1967

// MARYLAND CONTINUING-ED MEDICAL-ED PARAMEDICAL-ED EVALUATION-ATTENDANCE-RECORD EVALUATION-SUBJECTIVE VISUAL-AIDS MAIL-ED MATERIALS COST TAPE-RECORD

A SATEWIDE EDUCATIONAL TELEVISION NETWORK WAS NOT AVAILABLE AND FM RADIO APPEARED PROBABILITY EXPENSIVE. COMMUNITY HOSPITALS IN MARYLAND WERE LINKED BY TELEPHONE IN OCTOBER, 1965 **, FOR THE PURPOSES OF DISSEMINATING PROGRAMS OF MEDICAL INTEREST AMONG HOSPITAL PERSONNEL. MAILING MATERIALS TO VARIOUS CONVENIENT LOCATIONS CAN LISTEN TO THE SIMULTANEOUS TRANSMISSION OF MATERIALS AND SPEAK OVER THE NETWORK. FURTHERMORE, SLIDES AND OTHER SUPPLEMENTARY MATERIALS 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 PARAMEITAL PROGRAMS WITH SPECIAL BENEFIT 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 MEDICAL PROGRAMS ARE EVALUATED BY A SYSTEM OF TABULATION OF PHYSICIANS ATTENDING AND THEIR COMMENTS AND CRITICISMS. IN 18 MONTHS THE MEDIC NETWORK HAS GROWN CONSIDERABLY AND NOW INVOLVES 30 GENERAL HOSPITALS OUT OF THE 44 IN THE STATE. THE PROGRAMS ARE BEING MADE TO TAPE RECORD AND STORE THEM FOR FUTURE REFERENCE AND USE BY A WIDER AUDIENCE. HELDERICH HOPES FOR THE EXPANSION OF PEDIC TO INCORPORATE THE USE OF TELEVISION. ND

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, P 17-7, JAN 1968
PARTY-LINE FOR NURSES

NURSING CUT-OFF 16, P39-1, MAY 1968

THE UNIVERSITY EXTENSION DEPARTMENT OF NURSING OF THE UNIVERSITY OF WISCONSIN HAS INITIATED A PROGRAM OF TELELECTURES TO BRING INservice INSTRUCTION TO NURSES THROUGHOUT THE STATE, USING A TELEPHONE CIRCUIT TO 24 CAMPUS CENTERS. A TRIAL PROGRAM OF 12 LECTURES BEGAN IN FEBRUARY 1966 UNDER THE DIRECTION OF ETHEL MAE REGAN AND SIGNE S. COOPER. THE LECTURES WERE PREPARED TO AVOID UNFORESEEN DIFFICULTIES, AND PRINTED AND VISUAL AIDS WERE PREPARED FOR PARTICIPATING CENTERS. NURSE COORDINATORS MANAGED THE CLASSES AT RECEPTION SITES, AND EVALUATION QUESTIONNAIRES WERE FILLED OUT AT THE END OF THE FIFTH CLASS. FOLLOWING THIS SUCCESSFUL EXPERIMENT, MORE NURSING CLASSES WERE SCHEDULED. SOME OF WHICH WERE SIMULTANEOUSLY HEARD OVER FM STATIONS. THE ARTICLE CONCLUDES WITH AN EXTENSIVE REVIEW OF THE PROGRAM COSTS.

MEDICAL EDUCATION NETWORK

OHIO STATE MEDICAL JOURNAL 64, P38+, JAN 1968

THE OHIO MEDICAL EDUCATION NETWORK (OHMEN) 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 HOSPITALS IN OHIO, PENNSYLVANIA, KENTUCKY AND WEST VIRGINIA. RADIOCASTS AND THE ONE-HOUR PROGRAMS ARE "LIVE." TWO-WAY DISCUSSIONS BETWEEN HOME-COMmUNITY PHYSICIANS AND MEDICAL SCHOOL TEACHERS IN SUBJECTS VITAL TO CONTINUING MEDICAL EDUCATION, IN 1967 THE PROGRAM WAS EXPANDED TO INCLUDE NURSING TOPICS. OPEN-CIRCUIT TV WITH TWO-WAY AUDIO HAS ALSO BEEN USED BY THE OHMEN.

ANOTHER WAY FOR DOCTORS TO KEEP UP

MEDICAL ECONOMICS 43, P12-6, APRIL 4, 1966

TELE-MED IS A COMMERCIAL DIAL-ACCESS SERVICE WHICH PROVIDES PRACTICING DOCTORS ACCESS TO CURRENT MEDICAL INFORMATION. TAPED PROGRAMS INCLUDE 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 F. SULOS 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 46 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-HMP

AMERICAN JOURNAL OF NURSING 69, P92+, MAY 1969

'BUFFALO, N.Y.- A $350,685 DOLLAR GRANT FROM THE REGIONAL MEDICAL PROGRAM FOR WESTERN NEW YORK WILL FINANCE, AMONG OTHER PROJECTS, CONVERSION OF THE TWO-WAY TELEPHONE LECTURE NETWORK TO THE TELEPHONE NETWORK HAS 77 Attending 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 12 NURSES AND 60 PHYSICIANS WITH TRAINING IN THE OPERATION OF CORONARY CARE UNITS.' FULL NEWS ITEM QUOTED HERE.
GEORGETOWN UNIVERSITY HAM NETWORK SENDS CONSULTATIONS OVERSEAS
HOSPITALS 42, P147, FEB 1, 1968
// GEORGETOWN-UNIV INTERNATIONAL-MEDICAL-AMATEUR-RADIO-SOCIETY EMERGENCY-CONSULTATION EQUADOR 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

NURSES OF NINE CITIES LINKED BY EDUCATIONAL TV INTERCOM
AMERICAN JOURNAL OF NURSING 66, P102, AUGUST 1966

GEORGETOWN'S INTERNATIONAL RADIO
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 201(9), PROT, MAY 29, 1967
// GEORGETOWN-UNIV EMERGENCY-CONSULTATION MEDICAL-ED CROSS-CULTURAL-ED RADIO-AMATEUR W3FXJ

A NEW SPHERIC MANY RADIO STATION, W3FXJ, 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 PREDOMINANTLY 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 KERK LABORATORIES, A DIVISION OF KERK COMPANY (WASHINGTON DAILY NEWS, APRIL 19, 1967).* FULL NEWS ITEM QUOTED HERE. 4139

LYNN, ELIZABETH N.
NURSING RADIO CONFERENCES
NURSING CUTLERY 15, P32-3, MAY 1967
// SAN-FRANCISCO PRESCH CALIFORNIA CONTINUING-ED MEDICAL-ED EVALUATION-QUESTIONNAIRE COST FM-RADIO KKUF-FM KAPA-FM


ZIMMERMAN, HARRY
EVALUATING INFECTION APPLIED TC PROGRAMMING ON AN EDUCATIONAL TELEPHONE NETWORK - A BEGINNING
PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 11P. ERIC ED 836 763
// WISCONSIN EXTENSION-UN ETN EVALUATION-FORMAL

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 INCLUDED 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, LECTURE, MODERATOR, AND TECHNICAL QUALITIES OF THE ETN. VARIABLES CONSIDERED WERE THE VARIOUS FACTORS WERE INTERPERSERVED AND RESULTED IN 48 ITEMS PILL 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-END, WITH PROVISION FOR SUGGESTIONS FOR IMPROVEMENT. SUBJECTIVE EVALUATIVE INFECTION INCORPORATED IN MEANS AND STANDARD DEVIATIONS INDICATED THE OVERALL PROGRAM WAS SOMEWHAT BETTER THAN A POSSIBLE AVERAGE BUT 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 ASUME THE ROLE OF GROUP LEADER IN AN ATTEMPT TO BRING ABOUT MORE GROUP INTERACTION. 4950/211. ERIC
FEASIBILITY OF INCORPORATING TELELECTURE IN PRESENTING A TEACHING METHODS COURSE TO VOCATIONAL TEACHERS

COLUMBIA, UNIVERSITY OF MISSOURI, ED.D. THESIS, 1970. 156 P. AVAILABLE FROM UNIVERSITY MICROFILMS, INC., ANN ARBOR, MICH. ERIC ED 042 019

// INSERVICE-ED TEACHER-ED EVALUATION-CONTROL-GROUP EVALUATION-PRE-AND-POST-TESTING EVALUATION-OTTIS-EMPLOYMENT-TEST COST

TC TO TEST THE FEASIBILITY OF TEACHING A METHODS COURSE TOTAL 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 TRAINEES INVOLVED IN A ONE-SEMESTER COURSE ON THE PRINCIPLES OF TEACHING INDUSTRIAL SUBJECTS. ALL STUDENTS WERE GIVEN AN OTTIS EMPLOYMENT TEST AND A PRETEST OF COURSE CONTENT TO MEASURE GENERAL ACADEMIC ABILITY AND WRITTEN AND ORAL EVALUATION QUESTIONS WERE CONDUCTED THROUGHOUT THE COURSE. DATA WERE ANALYZED BY ONE-WAY ANALYSIS OF VARIANCE, CHI-SQUARE, COEFFICIENT OF CORRELATION, AND CONGRUENCE. 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 ECONOMIC IN COSTS AND IN TRAVEL TIME. THIS ED.D. THESIS WAS SUBMITTED TO THE UNIVERSITY OF MISSOURI. (ERI ERIC

THE TELEPHONE METHODS OF TEACHING

DENVER, COLORADO STATE DEPARTMENT OF EDUCATION, (1963) 23 P. ERIC ED 026 357

// COLORADO WESTERN STATES-EMERGENCY CURRICULUM-ENRICHMENT AMERICAN-HISTORY EVALUATION-QUESTIONNAIRE FUND MOUNTAIN STATES TELEPHONE-CO

IN ORDER TO DETERMINE THE FEASIBILITY OF BRINGING OUTSTANDING TEACHERS TO THE HIGH SCHOOL CLASSROOM, 5 SMALL COLORADO SCHOOLS EXPERIMENTED WITH SHARING OF INFORMATION THROUGH USE OF LONG-DISTANCE CONFERENCE TELEPHONE CALLS. THE EXPERIMENTS INVOLVED COLLEGE PROFESSORS LECTURING DIRECTLY TO HIGH SCHOOL STUDENTS IN AMERICAN HISTORY CLASSES. THE STUDENTS RESPONDED TO QUESTIONS WHEN CREATING A LIMITED 2-WAY COMMUNICATION WHICH IS NOT POSSIBLE WITH TELEVISION, TAPE RECORDERS, AND RADIO MEDIA. THE INSTRUCTORS FELT THAT THEIR STUDENTS BENEFITED FROM THE EXPERIENCE AND THAT TELEPHONE USE/HAD MANY UNEXPLORED POSSIBILITIES AS A TEACHING DEVICE. THE DOCUMENT IS APPENDED WITH PROJECT COSTS (FINANCIAL AND TECHNICAL ASSISTANCE WAS PROVIDED BY THE MOUNTAIN STATES TELEPHONE CO.) AND WITH THE QUESTIONNAIRES USED IN EVALUATING THE STUDY. (ERI ERIC

INSTRUCTIONAL SYSTEMS FOR EXTRAMURAL COURSES

PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 11 P. ERIC ED 036 714

// ILLINOIS-ONLY EXTENSION AGRICULTURE EVALUATION-QUESTIONNAIRE EVALUATION-COURSE=SUCCESS INDEPENDENT-STUDY

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) "UNIVERSE," WHICH TRANSMITS AUDIO AND VISUAL SIGNALS VIA TELEPHONE LINES FROM ONE CAMPUS CLASSROOM TO ANOTHER CLASSROOM LOCATED SOMEWHERE ELSE IN THE STATE AND 2) "AUTOTUTORIAL". THE DOCUMENT IS APPENDED WITH THE ILLINOIS COURSE EVALUATION QUESTIONNAIRE. THE DOCUMENT IS APPENDED WITH PROJECT COSTS (FINANCIAL AND TECHNICAL ASSISTANCE WAS PROVIDED BY THE MOUNTAIN STATES TELEPHONE CO.) AND WITH THE QUESTIONNAIRES USED IN EVALUATING THE STUDY. (ERI ERIC

ADULT EDUCATION BY MEANS OF TELEPHONE

PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 7 P. ERIC ED 036 756

// WISCONSIN-ONLY EXTENSION IN 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 (IN-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 WILL NEED TO BE IDENTIFIED AND IMPLEMENTED 2) PARTICIPANTS AND PROGRAM LECTURERS NEED PREPARATION FOR THE MECHANICAL ASPECTS 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/ERI ERIC

ALTERNATIVE TECHNOLOGIES FOR INFORMATION NETWORKS

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

// BIO MEDICAL-INFORMATION NETWORKS COST

THE PAPER CONCERNS SOME OF THE ECONOMIC CONSIDERATIONS INHERENT IN DESIGNING USER SERVICES THAT INTEGRATE COCH VARIOUS COMMUNICATION SYSTEMS. IT DESCRIBES SOME SUCH SYSTEMS CONSIDERED IMPORTANT IN PROVIDING INFORMATION TO THE BIOLOGICAL COMMUNITY COMPRISING OF PRACTICING PHYSICIANS AND THOSE ENGAGED IN TEACHING AND RESEARCH, AS WELL AS OTHER PROFESSIONALS DIRECTLY INVOLVED 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. 61P. ERIC ED 045 880

// WISCONSIN-UNIV EXTENSION-W 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 SUBJECTS AND MAY BE USED FROM ANY TELEPHONE, FREE OF CHARGE TO WISCONSIN CALLERS. 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 13 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. (97)

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

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

// INTERUNIVERSITY-COOPERATION REGIONAL-NETWORK EEN RADIO TV COMPUTER

THIS STUDY SOUGHT TO IDENTIFY PHYSICAL FACILITIES NEEDED TO CONNECT THE SIX NEW ENGLAND LAND-GRAIT UNIVERSITIES. CRITERIA WERE TIME TUGS OF CURRENT TECHNOLOGY; COST (REGULAR OPERATING BUDGETS OF PARTICIPATING INSTITUTIONS); MINIMAL PERSONNEL REQUIREMENTS; FLEXIBILITY, AND COMPATIBILITY. THE TELEPHONE SYSTEM, AN EXISTING MICROWAVE NETWORK, A DEVELOPING RADIO NETWORK, AND COMPUTERS AND OTHER SYSTEMS RECEIVED SPECIAL ATTENTION. IT WAS DECIDED AMONG OTHER THINGS, THAT THE EASTERN EDUCATIONAL TELEVISION NETWORK (EENT) COULD BE THE BACKBONE OF AN EDUCATIONAL INFORMATION NETWORK, AND THAT A MAIN TRUNK MICROWAVE RELAY SYSTEM FROM WASHINGTON, D.C., TO PORTLAND COULD BE CREATED TO SERVICE A COMPLETE REGIONAL DISTRIBUTION SYSTEM. THE DOCUMENT INCLUDES PROVISIONS OF THE HIGHER EDUCATION ACTS, TITLE I, IEN ASSOCIATED INSTITUTIONS, AND DESCRIPTIONS OF THE EENT SYSTEM, THE NEW ENGLAND LIBRARY INFORMATION NETWORK, A SHARED DATA PROCESSING SYSTEM FOR YORKE HOSPITALS, THE PROPOSED AGRICULTURAL NETWORK OF THE NATIONAL AGRICULTURAL LIBRARY, THE PROPOSED UNIVERSITY INFORMATION TECHNOLOGY CORPORATION INVOLVING HARVARD AND THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY, AND INFORMATION AND COMPUTER UTILITIES. (LY) ERIC

HUBERT, MICHAEL J. (AND OTHERS)

ART BY TELEPHONE, DESIGN AND EVALUATION

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

// NEVADA OREGON IOWA WESTERN STATES SMALL SCHOOLS PROJECT SECONDARY-ED CURRICULUM ENRICHMENT VISUAL AIDS LEASED LINES TITLE III

THE ART-TELEPHONE PROGRAM, FUNDED UNDER TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT, INVOLVED RURAL HIGH SCHOOLS IN NEVADA, OREGON, IOWA, 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 IN WHICH ALL TEACHERS COULD SHARE INSTRUCTION MATERIALS, CURRICULAR IDEAS, AND THE ART TEACHERS TANTA. A LEARNING CENTER WAS SET UP IN EACH SCHOOL WHERE ART MATERIALS WERE PROVIDED, AND A TELEPHONE TELEGRAPH MACHINE WAS USED TO SEND ART INSTRUCTION AND HAVE STUDENTS WORK ALONGSIDE EACH OTHER. THE PROGRAM WAS SUCCESSFUL IN PROVIDING A WIDER RANGE OF ART PROGRAMS AND INCREASING THE QUALITY OF ART EDUCATION IN THESE SCHOOLS. (41) ERIC ED 045 223

HUBERT, JOHN D.

TOWARD AN INHERITANCE INFORMATION NETWORK, A STUDY OF THE FEASIBILITY OF ESTABLISHING EDUCATIONAL INFORMATION LINKS BETWEEN KEENE STATE COLLEGE, PLYMOUTH STATE COLLEGE AND THE UNIVERSITY OF NEW HAMPSHIRE, CARRIED OUT WITH THE SUPPORT OF THE FORD FOUNDATION

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

// INTERUNIVERSITY-COOPERATION REGIONAL-NETWORK DATA PLEX SYSTEM TC COST

GE'S MOCKUP FOR BUSINESS CONFERENCE

BUSINESS WEEK 2183, P24+4, JULY 11, 1970

// CCTV LEASED-LINES SHERATON-HOTELS MANAGEMENT-TELEVISION-SYSTEMS-INC

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

MICURRDY, PAT

THE INNOVATIVE GROUP INNOVATES WITH TV

CHEMICAL AND ENGINEERING NEWS 46/7, P16-7, FEB 16, 1970

// HARRISON-KHOUSE GLEN-COVE NEW-YORK CONFERENCE-ENVIRONMENT CCTV TECHNOLOGY-COMMUNICATION-INC

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., ITCI, THE CONFERENCE WAS A STUDY IN INNOVATION AS THE ITCI 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 THEATER-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 ITCI PRESIDENT BILL MASS REFERRED TO ITCI'S STAFF AS 'ENVIRONMENT CREATORS,' WHILE BOB CALHORN, EXECUTIVE DIRECTOR, SUGGESTED THAT ITCI'S MAIN GOAL WAS PARTICIPATION. FK

CM-SITE CONTINUING EDUCATION

MECHANICAL ENGINEERING 92/10, P42, OCT 1970

// DELAWARE-VALLEY PENNSYLVANIA-UNIV GRADUATE-ED ENGINEERING INDUSTRY-UNIVERSITY ITFS FM-RADIO

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 ON COMMENTS TO THE PROFESSOR VIA AN FM-RADIO TALKBACK. DR. L. NORMAN WISHN, 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. FK

EXPERIMENTAL SERIES OF LECTURES FOR TEACHERS UTILIZES THE COMPUTER, TELEVISION, AND THE TELEPHONE

IEEE SPECTRUM 5/3, P125, MARCH 1968

// BROOKLYN NEW-YORK TEACHER-ED CAI PROGRAMMED-INSTRUCTION INDIVIDUAL-INSTRUCTION VIDEO TAPE IBM

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 VIDEO TAPE 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. CM

MITCHELL, D.

BETTER VIDEO CONFERENCES

BELL LABORATORIES RECORD 48/1, P19-22, JAN 1970

// HOLMEL 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 HOLMEL, 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 SIGNALS, TURN ON THE CAMERA WHICH COVERS THE PERSON WHO IS SPEAKING. A FOURTH CAMERA IS LOCATED OVERHEAD AND USES A FOCUS LENS TO FOCUS ON DRAWINGS, PAINTED MATERIALS AND OTHER VISUAL AIDS. WHILE A FIFTH CAMERA REVIEWS 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 44,1, P23-5, JAN 1970

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 BOARDS OF EDUCATION IS STUDYING THE "DIAL-A-DRILL" SYSTEM WHICH CAN BRING ARITHMETIC INTO THE HOUSING UNIT. STUDENTS 6THER 3RD-6TH GRADE STUDENTS THIS SYSTEM CAN BE FURTHER IMPROVED BY INCLUDING A 4030 MULTIPLE DATA SET SO THAT CALLS MAY BE ORIGINATED CENTRALIY AS WELL AS FROM OUTLYING AREAS. THE TOUCH-TONE SYSTEM USED BY THE DAK OTTAWA-RIVER FOREST HIGH SCHOOL IS A RANDOM ACCESS RETRIEVAL SYSTEM WHICH INCLUDES 224 TAPEs ON VARIOUS SUBJECTS. THE HIGH SCHOOL STUDENTS MAY CHOOSE FROM 4-5 TAPES FROM ONE OF THE 75 CARRELS LOCATED THROUGHOUT THE SCHOOL. CALLS FROM THE STUDENTS' HOMES ARE HANDLED THROUGH THE 4030 COMPUTER LOCATED IN THE SCHOOL INFORMATION CENTER.

BUSY MOR'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. HOWARD SARKENT, ASSISTANT DIRECTOR OF THE CENTER'S COMPUTERIZED PROGRAM, IS CONDUCTING EVALUATIONS OF THE USES, USERS, AND EFFECTIVECP OF THE PRESENT SYSTEM. HE HOPES EVENTUALLY TO ENLARGE THE TAPE LIBRARY AND EXPAND SERVICES TO THE GENERAL PUBLIC. THE TITLE IS MEANING - 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

A TAX INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED ITFS FM-RADIO VISUAL-AIDS VIDEOTAPE ELECTROKINETIC CATV SATELLITE-DOMESTIC COST 2606-2690-MHz

MANY UNIVERSITIES AND ORGANIZATIONS SPONSORED BY INDUSTRY SUCH AS THE ASSOCIATION FOR CONTINUING EDUCATION TECHNOLOGY TO BE IN STANDING COMMUNICATIONS TO 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 OF "ELECTRONIC BLACKBOARDS." IN ALL CASES, "...TALKBACK IS AN ESSENTIAL PART OF THE SYSTEM." THE MOST PROMISING AND LEAST COSTLY FEEDBACK METHOD SO FAR DEFEATED 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, P73-86, MAY 1970

STANFORD'S FOUR-CHANNEL INSTRUCTIONAL TELEVISION NETWORK WAS ESTABLISHED IN 1969 MAINLY TO PROVIDE PART-TIME GRADUATES 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 MULTIPURPOSE 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 CONTINUOUS 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 (2666-2690 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.
EDITORS GC TO CLASS VIA TELEPHONE HOOKUP
EDITOR AND PUBLISHER 102.69, P16, DEC 6, 1969
// CALIFORNIA SACRAMENTO-STATE-UNIV IOWA-STATE-UNIV NEVADA-UNIV HIGHER-ED CURRICULUM-PERFORMANCE JOURNALISM

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, AND ANOTHER "CONFERENCE CALL TELELECTURE" IS PLANNED FOR JANUARY 1970. NEWS ITEM. SEE 4499C, CM

"J" STUDENTS GUIZ EDITORS ACROSS US
EDITOR AND PUBLISHER 102.61, P32, DEC 20, 1969
// CALIFORNIA SACRAMENTO-STATE-UNIV IOWA-STATE-UNIV NEVADA-UNIV HIGHER-ED CURRICULUM-ENRICHMENT JOURNALISM

A 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 RELATIVELY 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 4499C, CM

MONAGHAN, JOHN W.
FUTURE REGULATORY POLICY ASPECTS OF THE TELEPHONE INDUSTRY
PUBLIC UTILITIES PORTNIGHTLY 82.12, P35-9, DEC 5, 1968
// FCC PRESIDENTS-TASK-FORCE-CN-COMMUNICATION-POLICY BELL, RCIC, ITT-WORLDCOM WESTERN-UNION-INTERNATIONAL COMMON- carrIERS COMPETITION SATELLITES-DEMONSTRATIVE OWNERSHIP COMSAT FOREIGN-ATTACHMENTS COAXIAL-CABLE

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 COMPATIBILITY 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. 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 IT TO CONTINUE TO BE SO." WH

VOICE PICTURE HOOKUPS CONNECT TWO COMPANIES
MACHINE DESIGN 42, P43, JAN 22, 1970
// HUEING LOCKHEED VISUAL-ARTS LDX

EXPERTS AT THE HUEING 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. Fk

POLKAR, JULIUS P.
PICTUREPHONE SERVICE, A NEW WAY OF COMMUNICATING
VOLTA REVIEW 72, P438-9, OCT 1970
// AT&T BELL

4686C

3. KRUCK, OCALNO & TVERSKY, ARNOLD D.

CLASSROOM COMMUNICATION, TELELECTURE

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

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

SINCE 1969, THE DOVER (NEW JERSEY) PUBLIC SCHOOLS HAVE USED TELELECTURE TO BRING RESOURCE PEOPLE INTO THE CLASSROOM. FOLLOWING A SUCCESSFUL DEMONSTRATION, TELELECTURE HAS ALLOWED HIGH SCHOOLS 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 THE 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 TELEPHONIC FEE. THE AUTHORS PREDICT THAT TELELECTURES WILL PLAY A VITAL ROLE IN DOVER'S CURRICULUM DURING THE 1970'S.

FK

4692C

3. MCKEAY, 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


FK

4693C

3. MCRAIS, ALBERT J.

UNIVERSITY INDUSTRY TELEVISION, RADIO AND TELEPHONE LINKS

EDUCATIONAL BROADCASTING REVIEW 3, P44-52, FEB 1970

// STANFORD-UNIV CONTINUING-ED INDUSTRY-UNIVERSITY ENGINEERING ITS CATV ELECTROWRITE TAKEN SURGE SIMSYS-SYSTEMS-INC

*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 SHELDS BUT WILL PAY THE FULL CAPITAL AND OPERATING COSTS OF THE SYSTEM." LC

4694C

3. VICTOR COMPTOMETR CORPORATION.

BUSINESS MACHINES GROUP

VICTOR ELECTROWRITER REMOTE BLACKBOARD, VERB

CHICAGO, VICTOR COMPTOMETR CORPORATION, NO DATE

// CONTINUING-ED INSERVICE-ED CURRICULUM ENRICHMENT COURSE-ENRICHMENT

THIS BROCHURE, PREPARED BY THE VICTOR COMPTOMETR 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 ARE COURSE ENRICHMENTS, SPECIALIZED TEACHING, SERVICE TRAINING AND CONTINUING EDUCATION. THE BROCHURE ALSO INCLUDES PICTURES AND DRAWINGS OF THE UNITS AS WELL AS ITEMS 4695-700 WHICH ARE LISTED SEPARATELY. CM
4695C

NEW A-V TOOL
REPRINTED FROM SALES MANAGEMENT, PART 2, MAY 21, 1965

// CEDAR-FALLS IOWA INSERVICE-ED TEACHER-ED ADULT-ED MATHEMATICS ELECTROWRITER COST BELL-LABS

THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB) IS A NEW TOOL FOR THOSE WHO PLAN MEETINGS. *VERB IS AN OVERHEAD PROJECT (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 AMPLIFIED TELEPHONE TELETYPE 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 NATION. DURING THE SAME EVENING ANOTHER PRESENTATION WAS MADE TO 1800 PEOPLE FROM CEDAR FALLS, IOWA USING THE SAME SETUP. THE SYSTEM CAN BE USED ON REGULAR TELEPHONE LINES TO REACH WIDELY DISTRIBUTED REMOTE AUDIENCES. COST IS CONSIDERABLY LESS THAN TRAVEL TIME AND EXPENSE NECESSARY TO BRING THE LECTURER TO THE SCHOOL. CM

4696C

FRENCH IS TAUGHT OVER VERB
CARBON COUNTY INSTRUCTIONAL CENTER 2,1, PI, JAN 31, 1968
// SARATOGA HANNA ENCAMPMENT SINCLAIR WYOMING CCCIC SECONDARY-ED CURRICULUM-ENRICHMENT ELECTROWRITER TITLE-III-INSTRUCTIONAL-MATERIALS-CENTER

*THE CARBON COUNTY COORDINATED INSTRUCTIONAL CENTER (SINCLAIR, WYOMING) IS OPERATED UNDER A TITLE III GRANT, ENSURE THIS AND ITS SECOND PROJECT INCLUDE THE INSTRUCTIONAL MATERIALS CENTER AND CURRICULUM IMPROVEMENT THROUGH THE USE OF THE VICTOR ELECTRONIC ENCAMPMENT BLACKBOARD, IVERB. *ONE OF THE CLASSES BEING TAUGHT UTILIZING VERB IS FRENCH 1. 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 ACQUIRED BY HER STUDENTS, VERB STUDENTS UNDERSTAND AND DO 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. CM

4697C

*** JOHNSON, LERNARD
CHEMISTRY COURSE
CARBON COUNTY INSTRUCTIONAL CENTER 2,1, P2, JAN 31, 1968
// SARATOGA RAMMIS HANNA EAGLE ENCAMPMENT MEDICINE-BOW CHEROKEE LARAMIE WYOMING-UNIV CCCIC INSERVICE-ED TEACHER-ED GRADUATE-ED ELECTROWRITER

AN INSERVICE COURSE IN 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, EAGLE, RAMMIS HANNA, AND MEDICINE BOW ARE PARTICIPATING IN THE SUCCESSFUL PROGRAM. MINOR TECHNICAL DIFFICULTIES WERE FAIRLY OWEED TO THE EXCELLENT COURSE AND INSTRUCTOR. CM

4698C

*** WILLIAMS, allL
ART-HISTORY MAKES HISTORY
CARBON COUNTY INSTRUCTIONAL CENTER 2,1, P2, JAN 31, 1968
// WYOMING-UNIV CCCIC SECONDARY-ED CURRICULUM-ENRICHMENT ELECTROWRITER

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 PROVED TO BE AN ENRICHING EXERCISE FOR HIGH SCHOOL STUDENTS AND ADULTS IN A CULTURALLY DEPRIVED AREA OF WYOMING. CM

4699C

*** WIEGAND, CATHERINE
PILOT STUDY
CARBON COUNTY INSTRUCTIONAL CENTER 2,1, P2, JAN 31, 1968
// WYOMING-UNIV CCCIC INSERVICE-ED TEACHER-ED CONSERVATION ELECTROWRITER

*THE CONSERVATION EDUCATION IMPROVEMENT PROJECT IS A PILOT STUDY TO IMPROVE THE PRESENTATION OF CONSERVATION EDUCATION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL CURRICULUM. THE PROJECT IS CURRENTLY BEING DEVELOPED UNDER THE DIRECTION OF DR. KENNETH DENT AND HOWARD HENRY 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. CM

4700C

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

WISCONSIN-UNIV CONTINUING-ED INDUSTRY-UNIVERSITY EVALUATION ETH-SCA ELECTROWRITER

This report evaluates the first (1969) electrowriter course in electrical engineering offered through the ETH-SCA network by University Extension of the University of Wisconsin-Madison. The 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 30 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. CM

THE 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

WISCONSIN-UNIV POSTGRADUATE-ED MEDICAL-ED PARAMEDICAL-ED ETH-SCA PROGRAM-LISTING COST

This brochure is designed to inform hospitals or programs in continuing medical education presented over the educational telephone network (ETH) and the piggy-back FM radio channel (SCA) of the University of Wisconsin. A detailed analysis of costs to participating hospitals and individuals is included, as is a list of those programs available to interested medical and paramedical personnel. FM

THE DEVELOPMENT AND UTILIZATION OF SUBSIDIARY COMMUNICATIONS AUTHORIZATION

EDUCATIONAL BROADCASTING REVIEW 3:4, P35-43, DEC 1969

WISCONSIN-UNIV EXTENSION-WM SCA MULTIPLEXING FM-RADIO WIA-FM INSERVICE-ED MUSICALCASTING MEDICAL-RADIO-SYSTEM SIGHT-RADIO WEATHER WARNINGS TEXAS KQWE-FM FCC HOME-STUDY

The author presents an explanation of how FM multiplexing is accomplished and a history of its development since 1955 when the FCC authorized its commercial use, and since 1961 when the FCC authorized its use by educational FM stations. Entitled subsidiary communications authorization, this authorization permits commercial FM stations to use FM multiplexing techniques for the transmission of additional audio program material which could be received only by individuals and organizations having multiplexing receivers. The author then outlines some of the current and proposed uses of multiplexing by commercial and educational FM stations, which include musicalcasting, the transmission of medical information, aircraft newscasting, weather warnings, sight radio, subscription services providing home study instruction, credit courses, workshops and in-service training. The author concludes, "The commercial FM stations should be willing to explore new utilities for their SCA channel, such as regional weather for motorists, airline news and local news services. Entering the current commercial FM station owners might increase their cooperation with educational FM stations. These ventures would allow the educational institutions to provide the content of software and commercial stations to provide the vehicle or hardware." The frequency spectrum allocated and reserved for SCA is an important natural resource. It should be used with creativity and imagination to develop and exploit the tremendous educational potential of the medium. LC

ETN-SCA PROGRAM HANDBOOK

MADISON, UNIVERSITY OF WISCONSIN, UNIVERSITY EXTENSION, DIVISION OF STAFF DEVELOPMENT, 1969. 38P

WISCONSIN-UNIV EXTENSION-WM PROGRAMMING PRESENTATION-SKILLS VISUAL-AIDS MODERATOR EVALUATION-CHECKLIST

The author offers a brief description of by ETN-SCA, the educational communications network at the University of Wisconsin, and how it works. He then presents guidelines for using the system and suggests procedures for training programs to be presented over the system. Areas covered are registration procedures, program presentation, preparation of content, the studio, the moderator, the local program convener, publicity and evaluation. Appendices include a sample application blank, a sample news release, a list of ETN-SCA locations and a list of studio disc signals. See 4710 for discussion of evaluation technique. LC

ETN-SCA EVALUATION

PAGES 24-6 IN PARKER, LORNE A., ETN-SCA PROGRAM HANDBOOK, MADISON, UNIVERSITY OF WISCONSIN, UNIVERSITY EXTENSION, DIVISION OF STAFF DEVELOPMENT, 1969. SEE 4709

WISCONSIN-UNIV EXTENSION-WM EVALUATION-CHECKLIST PEC

A program evaluation checklist (PEC) has been developed in conjunction with the University of Wisconsin's extension and ETN-SCA network. This program evaluation checklist is designed to study the relationship between the educational telephone system of communication and the educational objectives of a program. Specifically, the PEC is concerned with the tailoring of educational materials for transmission through a private or closed-circuit telephone network characterized by multiple listening stations and manipulation of technical equipment. The authors explain how the PEC was developed and the procedures used when evaluating the information gathered from the PEC. The PEC consists of a list of statements (items) which define specific aspects of a program content, method of presentation, etc. The participants are asked to evaluate each statement and determine how well it fits the description of this program. The development of the PEC represents a part of the total research, which is designed to use the checklist to evaluate an effective educational telephone program. See 4709 and 4711-12. LC
RECNO INDEX

4711C

*** PARKER, LORNE A. * MCCURBIN, HAMILTON * ZIMMERMAN, HARRY

PROGRAM EVALUATION CHECKLIST (Pec)

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

// WISCONSIN-UNIV EXTENSION-W EVALUATION-CHECKLIST ENH-SCA

THE 1970 PROGRAM EVALUATION CHECKLIST IS AN EVALUATIVE INSTRUMENT DESIGNED FOR STUDYING THE NEWNESS AND USEFULNESS OF PROGRAMS PRESENTED OVER THE UNIVERSITY OF WISCONSIN'S SCANNING SYSTEM. THE CHECKLIST IS A TOOL TO HELP FACULTY AND ADMINISTRATIVE STAFF DETERMINE HOW WELI THE PROGRAM OR PROGRAM ACTIVITY MEETS THE NEEDS OF THE COMMUNITY. THE CHECKLIST IS A TOOL TO HELP FACULTY AND ADMINISTRATIVE STAFF DETERMINE HOW WELI THE PROGRAM OR PROGRAM ACTIVITY MEETS THE NEEDS OF THE COMMUNITY.

4712C

*** PARKER, LORNE A. * MCCURBIN, HAMILTON

PROGRAM EVALUATION CHECKLIST (PEC)

WISCONSIN UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. EDUCATIONAL COMMUNICATIONS, 1960. 10P

// WISCONSIN-UNIV EXTENSION-W EVALUATION-CHECKLIST ENH-SCA

THE 1960 PROGRAM EVALUATION CHECKLIST IS A TOOL TO HELP FACULTY AND ADMINISTRATIVE STAFF DETERMINE HOW WELI THE PROGRAM OR PROGRAM ACTIVITY MEETS THE NEEDS OF THE COMMUNITY. THE CHECKLIST IS A TOOL TO HELP FACULTY AND ADMINISTRATIVE STAFF DETERMINE HOW WELI THE PROGRAM OR PROGRAM ACTIVITY MEETS THE NEEDS OF THE COMMUNITY.

4715C

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ART BY TELEPHONE

PACEMAKER 11, 9, 31, JAN 1968

// WESTERN-STATES-SMALL-SCHOOLS-PROJECT OREGON NEVADA IDAH0 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. THIS IS A COURSE PREVIOUSLY NINE OF THE ELEVEN SCHOOLS HAVE 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 ARTIEST AND OF THE STUDENTS ARE 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. THE 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

4716C

*** PUZZIOLI, DAVID A.

A STUDY OF TEACHING UNIVERSITY EXTENSION CLASSES BY TELE-LECTURE

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

// WEST-VIRGINIA-UNIV HIGHER-ED MATHEMATICS ENGINEERING PROBLEM-SOLVING ELECTRONIC VISUAL AIDS EVALUATION-TEST EVALUATION-RATIO EVALUATION-QUESTIONNAIRE EVALUATION-CONTROL-GROUP

AFTER AN OVERVIEW OF LITERATURE ON TELE-LECTURE MODELS, A STUDY WAS MADE OF THE APPPLICABILITY OF THE TEACHING EXTENSION CLASSES TO TELE-LECTURE AND ELECTRONIC VISUAL AIDS. THE STUDY WAS MADE AT WEST VIRGINIA UNIVERSITY. THE STUDY WAS MADE AT WEST VIRGINIA UNIVERSITY. THE STUDY WAS MADE AT WEST VIRGINIA UNIVERSITY. THE STUDY WAS MADE AT WEST VIRGINIA UNIVERSITY. THE STUDY WAS MADE AT WEST VIRGINIA UNIVERSITY.

4720C

*** DYSMENT, ROBERT

PHONE LECTURES LINK COMMUNITY HOSPITALS TO UNIVERSITY CENTERS

RESIDENT AND STAFF PHYSICIAN 16, 8 552-6, AUGUST 1970

// REGIONAL-MEDICAL-PROGRAM-FOR-WESTERN NEW YORK BUFFALO NEW YORK STATE-UNIV-OF NEW YORK ROSWELL PARK MEMORIAL INSTITUTE MEDICAL EDUCATION CONTINUING ENGLISH LANGUAGE VISUAL AIDS MAILED-MATERIALS COST LEASED-LINES

THE REGIONAL MEDICAL PROGRAM FOR WESTERN NEW YORK IS OPERATING A SUCCESSFUL TWO-WAY TELEPHONE LECTURE NETWORK LINKS 11 COMMUNITY HOSPITALS TO THE UNIVERSITY OF THE STATE UNIVERSITY OF NEW YORK AT BUFFALO, ROSWELL PARK MEMORIAL INSTITUTE, AND OTHER MEDICAL CENTERS. EACH HOSPITAL HAS A SPECIAL CONFERENCE ROOM WITH THE TELEPHONE AND SPEAKERS LINKED TO THE LISTENING GROUP. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR. EACH LISTENING GROUP HAS A MODERATOR.
HEARTLINK LINKS THE GP TO SPECIALIST

MEDICAL WORLD NEWS 8:19, P10S, APRIL 14, 1967

// OKLAHOMA, NEBRASKA, CREIGHTON-UNIV. REMOTE-DIAGNOSIS EKG IOWA MISSOURI WYOMING SOUTH-DAKOTA

DATABASE

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 AT THE RECEIVING CENTER 24 HOURS PER DAY AND DURING EMERGENCY DIAGNOSIS VIA TELEPHONE TO THE HOSPITALS IN A FIVE STATE NETWORK. THE NETWORK INCLUDES OKLAHOMA, 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. J.L.

*** VCYF, JOHN

THE RESTON, VIRGINIA, TEST OF THE MITRE CORPORATION'S INTERACTIVE TELEVISION SYSTEM

RESTON, VIRGINIA, MITRE CORPORATION, MAY 1971. 17p. MITRE REPORT MTP-352

// CATV-TWO-WAY COMPUTER HIGH-WAVE INTERACTIVE-TELEVISION HOME-SHOP STUDY PRIMARY-ED MATHEMATICS

CSII, CINN-ACCESS-TV RESTON-TRANSMISSION-CD CONTINENTAL-TELEPHONE-CD

THIS REPORT DESCRIBES HOW THE MITRE CORPORATION WILL COMBINE ITS TICCITY TIME-SHARED, INTERACTIVE, COMPUTER-CENTERED, 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 DISPLAY. 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 USES WILL COMMUNICATE WITH THE MITRE COMPUTER THROUGH THEIR 12-BUTTON PUSH-BUTTON PHONES. THE IDEAL GOAL OF THE RESTON TEST ARE: '... 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 POTENTIAL INFLUENCE OF NEW TECHNOLOGY ON THE LIVES OF PEOPLE.' - THE TABLE OF CONTENTS INCLUDES: 1) INTRODUCTION. 2) DEMONSTRATION SYSTEM AC INTERACTIVE TELEVISION 3) COMPUTER FACILITY 4) COMMUNICATION LINK 5) RESTON CABLE SYSTEM 6) HOME TERMINAL 7) COMPUTER SOFTWARE 8) DEMONSTRATION SOFTWARE 9) CONTENT 10) EDUCATIONAL MATERIAL 11) 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 CHARTS, L.C.

*** INTERMOUNTAIN REGIONAL MEDICAL PROGRAM

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 AND MONTANA. FIFTEEN PILOT PROJECTS WERE INITIATED TO EXTEND AND IMPROVE INADEQUATE 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 MONITORING AND COMMUNICATION EXCHANGE BETWEEN HEALTH PROFESSIONALS AND THEIR PATIENTS. THIS COMMUNICATION NETWORK DEPENDS UPON TWO-WAY RADIO AND CLOSED CIRCUIT TELEVISION, ACCESS TO NEW AND RENewed LITERATURE, A MONTHLY NEWSLETTER, VISITING CONSULTANTS, TRAINING COURSES, AUTOMATED DATA COLLECTION, CONTINUOUSLY AVAILABLE LIBRARY AND TELEPHONE CONSULTATION AND INFORMATION SERVICES FOR CERTAIN DISEASES. ON-LINE COMPUTER MONITORING OF PHYSIOLOGICAL DATA AND OTHER MORE CONVENTIONAL MEANS OF INFORMATION EXCHANGE. INCLUDES CHARTS AND MAPS.

*** COLLINS, ROBERT H.

TELELECTURES

SOUTHERN EDUCATION REPORT 2:4, NOV 1966

125

SOUTHERN EDUCATION REPORT 2:4, P14-7, NOV 1966

// MISSOURI STEPHENS-COLLEGE HIGHER-ED INTERINSTITUTIONAL- INSTRUCTION COURSE-ENRICHMENT ELECTROWRITTER COST GENERAL-TELEPHONE-CO GT-TE AT T VICTOR-BUSINESS-MACHINE-CORP

FORD FOUNDATION FUNDS HAVE MADE IT POSSIBLE FOR STEVENS COLLEGE (MISSOURI) TO BE AN INNOVATOR AND LEAD IN THE TELEPHONE TELELECTURE TECHNIQUE. THE TELELECTURE SYSTEM WAS INSTITUTED BY JAMES A. BUCHER IN 1960 TO FULFILL THE NEED FOR INSTRUCTION AT STEVENS COLLEGE. THIS TECHNIQUE TOOK OFF, AND THE COLLEGE NOW USES THE SYSTEM TO ENGAGE SCIENTISTS, GOVERNMENT SPECIALISTS, AND AUTHORS, AND USE IT FOR ITS OWN STUDENTS AND OTHER SPECIAL PURPOSES. THROUGH TELEPHONE AND VICTOR ELECTROWRITERS, STEVENS COLLEGE AND SIX OTHER COLLEGES (3 PREDOMINANTLY NEGRO) WILL DO A CO-OPERATIVE LECTURE SERIES WITHOUT FUNDATION ASSISTANCE IN NOVEMBER 1966. THE RELATIVE LOW COST OF THE TECHNICAL SYSTEM GIVES STEVENS COLLEGE AND OTHER UNIVERSITIES WITH LIMTED FUNDS AN OPPORTUNITY TO GIVE THEIR STUDENTS A MUCH HIGHER QUALITY OF EDUCATION THAN WOULD NORMALIY BE AVAILABLE. MURIBILY AND FLEXIBILITY PLUS AN ATMOSPHERE OF INFORMAL CONVERSATION ARE ALSO LISTED AS ADVANTAGES. EQUIPMENT COST IS ABOUT $40 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.

40
4917C

*** YEOMANS, C. ALLAN • LINDEY, HENRY C.***

TELELECTURES

SPEECH TEACHER 16-1, P65-7, JAN 1969

// HISTORICALLY THE USE OF TELELECTURES IN HIGHER EDUCATION WAS EXTREME. 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 SCIENCES STUDENTS TO SPEAK WITH AMERICAN POLITICAL LEADERS, IN 1960, MICHEL BEILS 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

4918C

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SIU PROFS TEACH BY TELEWRITER

ILLINOIS EDUCATION 57-7, P292, MARCH 1969

// HARRY-COUNTY TELEWRITER-EDUCATIONAL-SYSTEM MISSOURI SECONDARY-ED COURSE-ENRICHMENT BOTANY CURRICULUM-ENRICHMENT COST ELECTROWRITER CARBONDALE ILLINOIS SOUTHERN-IllINOIS-UNIV FIVE HIGH SCHOOLS IN HARRY 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 $270 PER HOUR OF USE, PROVIDES IMMEDIATE ACCESS TO A MULTIPOLY OF DISTANT SPEAKERS. PRIMARY AMONG THESE DISTANCE 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

4919

*** MYERS, K.C.

DEFECTOR, OFFICIALS REPORT FIRST HAND TO STUDENTS

EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45-5, P26-7**, MAY 1966

4920C

*** RICHARDSON, FRED H. (AND OTHERS)

THE DELWARE MEDICAL SEMINARS EXPERIMENT

GENERAL PRACTITIONER 25-4, P165-73, APRIL 1962

// REGIONAL-MEDICAL-NETWORK POSTGRADUATE-ED MEDICAL-ED EVALUATION-PRE-AND-POST-TESTING RADIO BY PARTICIPATING IN A SERIES OF TWO-WAY RADIO CONFERENCES ORIGlNATING 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 CONTINUING EDUCATION OF PRACTICING PHYSICIANS." THE ARTICLE IS VERY SPECIFIC AND GIVES DETAILED ANALYSES OF 1) EXAMINATION PREPARATION; 2) DIFFICULTY OF QUESTIONS; 3) VOLUNTEERS; 4) GACEP SCORES AND 5) INTRANT SATISFACTION SCORES. THE ARTICLE ALSO DEFENDS MULTIPLE-CHOICE EVALUATIONS AS OPPOSED TO MORE SUBJECTIVE EVALUATIONS WHICH ARE DESCRIBED AS CLOUSED BY OPINION AND PERSONAL PREJUDICES. THE CONFERENCES ARE SIMILAR TO THOSE SPONSORED BY THE ALABAMA MEDICAL COLLEGE. FK

4921B

*** EDELPLAN, LILY

TEACHING ADULTS VIA TELELECTURE AND ELECTROWRITER (VICTOR ELECTRONIC REMOTE BLACKBOARD)

WASHINGTON, COMMISSION ON ADULT JEWISH EDUCATION, B NAI B KOTH, 1967

4922B

*** 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. MBCD. 3P

4923

*** KRISTAL, H.

POSTGRADUATE TEACHING IN PSYCHIATRY COMBINING TV AND FM RADIO WITH SEMINARS

PSYCHOSOPHICS 3, P188-92, MAY-JUNE 1962
4924C

*** NELSON, WILLIAM P. (EDITOR) * WOODLEY, 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 REGAINED POPULARITY THROUGH THE PRESENTATION BY DR. WILLIAM L. SANDOZ AND DR. JOHN M. 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 SUMMIT QUESTIONS TO THE DISCUSSANTS. OFTEN THESE QUESTIONS LED TO GIVE-AND-TAKE DISCUSSIONS BETWEEN DR. SANDOZ, DR. MENELEY AND THE CONFERENCE'S MODERATOR, DR. FRANK M. WOODLEY, JR. OTHER TELECONFERENCE PROCEEDINGS WILL BE PRINTED IN THE NEW YORK STATE JOURNAL OF MEDICINE. SEE ALSO 4094 AND 4091. FK

4925C

*** BRISKIER, ARTHUR

HEART EXAMINATION AND CONSULTATION BY RADIO AND RADIO PHOTO TRANSMISSION

JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 169,17, P71-9 APRIL 25, 1959

// NEW YORK-CITY PARIS RPM REMOTE-CONSULTATION DATA-TRANSMISSION RADIO-SHORT-WAVE RADIO-PHOTOGRAPHY 56G 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 REMOTE SOUNDS WERE INSTANTLY RETRANSMITTED ACROSS THE ATLANTIC FOR CROSS-CHECKING. VISUAL CLINICAL INFORMATION WAS EXCHANGED BY RADIO PHOTOGRAPHY--THIS INCLUDED X-RAY PHOTOCARDIOGRAPHS AND CERO-CHEER-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 HARRIETTE ON INSTANTANEOUS MEDICAL EXAMINATION AND CONSULTATION, APPLICATION OF LONG-DISTANCE CONSULTATION, SHOULDER IN A MORE COMPLETE AND SATISFACTORY MUTUAL UNDERSTANDING AMONG ALL DOCTORS AND SCIENTISTS THROUGHOUT THE WORLD. WH

4926C

*** HIC. ED * GUIN, STANLEY J.

TALKBACK AT UCCN

EDUCATIONAL TELEVISION 1,8, P11-4, JUNE 1969

4927

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TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION - TEN YEARS OF EXPERIENCE, 1959-1966

ALBANY, N.Y., ALBANY MEDICAL COLLEGE OF SUNDAY UNIVERSITY, DEPARTMENT OF POSTGRADUATE EDUCATION, 1966. 193P

4928C

*** RALSTON, MICHAEL

TWO-WAY TELEPHONE SYSTEM FOR SEMINARS USING POST-OFFICE TRUNK LINES

LANCET 2,7722, P1293, DEC 12, 1964

// LONDON NORTHAMPTON ENGLAND CONTINUING ED MEDICAL ED CCR TECHNICAL-CONSIDERATIONS

AFTER OBSERVING THE TWO-WAY RADIO NETWORK AT NEW YORK'S ALBANY MEDICAL COLLEGE, THE AUTHOR EXAMINED THE POSSIBILITIES OF THE SYSTEM IN GREAT BRITAIN. THE NEED FOR IN-SERVICE MEDICAL EDUCATION WAS RECOGNIZED, BUT IT WAS NECESSARY TO DEVIATE A SYSTEM THAT WOULD NOT DISHARM THE WORK CAP. 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 IS TO BE SACRIFICED, THIS IS MORE THAN MADE UP BY THE LESSER 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. LC

4929

*** NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT

UNIVERSITY INTERCOMMUNICATION, THE NINE UNIVERSITIES RESEARCH PROJECT

CIBERG, N.Y. Reub, PERGAMON PRESS, 1966. 92P

4930

*** NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT * PERROTTE, H.G. * WARD, C.A. * FISK, J.W.

LINKING UNIVERSITIES THROUGH TECHNOLOGY

CAMBRIDGE, NATIONAL EXTENSION COLLEGE, 1969. 83P
TEACHING BY TELEPHONE

AUDIOVISUAL INSTRUCTION 12, 7, P683-7, SEPTEMBER 1967
// TOPEKA KANSAS SECONDARY-EDUCATOR SHARING COURSE-ENRICHMENT UCLA ADULT-ED EXTENSION CORNELL UNIVERSITY-INDUSTRY-ENGINEERING ELECTROENGINEER NEW YORK-CITY LOS ANGELES HOME-CENTER CHILDREN

THE PUBLIC HIGHSCHOOLS OF TOPEKA, KANSAS Began USING A TWO-WAY TELEPHONE AND ELECTROENGINEER TELELECTURE TECHNIQUE AS A TEACHER SHARING DEVICE WITHIN THREE PARTICIPATING SCHOOLS. THE SCHOOLS PLAN TO USE TELELECTURE AT A COURSE ENRICHMENT BY PROVIDING CONTACT BETWEEN THE STUDENTS AND PROMINENT SPEAKERS. THE AUTHOR ALSO DESCRIBES USE OF TELELECTURE BY OTHER INSTITUTIONS TO DEMONSTRATE OTHER MUSES OF USE AND THE EQUIPMENT UTILIZED. HE DESCRIBES A UCLA ADULT EXTENSION COURSE WHICH USED PUSH-BUTTON PHONES TO ALLOW GROUPS TO CONVERSE INDEPENDENTLY OR WITH THE ENTIRE GROUP. CORNELL UNIVERSITY'S COLLEGE OF ENGINEERING USES THE 'BLACKBOARD-TIME' TO TEACH INDUSTRIAL SCIENTISTS 95 MILES AWAY. THE SYSTEM UTILIZED TWO-WAY VOICE AND ONE-WAY ELECTRONIC MEDIA COMMUNICATION AND AN INDICATOR BUTTON TO SIGNAL THE TO-SPEAK. HOME-HOUND 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 BUTTORS AT THE SAME TIME ON INDIVIDUAL CONNECTIONS AND MULTI-DIRECTIONAL VOICE COMMUNICATION. THE ALVORD UNIFIED SCHOOL DISTRICT IN RIVERSIDE, CALIFORNIA HAS A DIAL-A-TAPE SYSTEM FOR REPEITION OR EXPLANATION OF HOMEWORK ASSIGNMENTS. CM

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

COMMUNICATION MEDIA, PROPERTIES AND USE

SANTA MONICA, CALIF., RAND CORPORATION, 1969. 112P

WISCONSIN IDEA JOINS THE PARTY-LINE


ELECTROCARDIOGRAPH NET LINKS JOHNSTOWN HOSPITAL WITH HOMES OF PHYSICIANS

COMMUNICATION 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 WEEKDAYS AT NIGHTS, AND AT OTHER TIMES WHEN A HEART SPECIALIST IS NOT PRESENT AT THE HOSPITAL, RESULTS IN SPEEEDY 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 GALLERY AND PHOTOS OF THE SYSTEM ARE INCLUDED. FK

FINGER LAKES REGION SUPPLEMENTARY EDUCATIONAL CENTER

GRADUATE INSTRUCTION VIA TELEPHONE

ROCHESTER, N.Y., SUPPLEMENTARY EDUCATIONAL CENTER, 1968. 19P
4951C

TELECOMMUNICATIONS FOR LEARNING
EVERETT, WASHINGTON. GENERAL TELEPHONE COMPANY OF THE NORTHWEST AND WASHINGTON STATE UNIVERSITY. 1969. 62P. ERIC ED 045 868

// TELEPHONE-TECHNICAL-CAPACITIES TV-TWO-WAY COST BELL


4963B

THE TECHNICAL ASPECTS OF VOICE TELEPHONE COMMUNICATIONS
PAGES 7-8 IN ORLICH, DONALD C. AND CHARLES O. HILER (EDITORS) TELECOMMUNICATIONS FOR LEARNING. EVERETT, WASHINGTON. GENERAL TELEPHONE COMPANY OF THE NORTHWEST AND WASHINGTON STATE UNIVERSITY. 1969

4964B

UTILIZATION OF VOICE MEDIA
PAGES 9-11 IN ORLICH, DONALD C. AND CHARLES O. HILER (EDITORS) TELECOMMUNICATIONS FOR LEARNING. EVERETT, WASHINGTON. GENERAL TELEPHONE COMPANY OF THE NORTHWEST AND WASHINGTON STATE UNIVERSITY. 1969

4965B

THE UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. HEALTH SCIENCES UNIT TELECOMMUNICATIONS CONFERENCE BROCHURE. CONFERENCE TO BE HELD OCTOBER 15-16, 1970. MADISON, WISCONSIN

4972C

CFF-CAMPUS GRADUATE TEACHING USING AUDIO VIDEO LINK INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION 3, P431-3, 1965

4973C

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

4974C

BECKMAN, EVERETT G. PROFESSOR STEVENS, THE CLASS IS READY AUDIOVISUAL INSTRUCTION 15,3, P74-5, MARCH 1970

4984

AROUND THE CORNER, THE VIEWPHONE INTERNATIONAL MANAGEMENT 24,10, P69, OCT 1969

4985

4986A

*** NATIONAL CONFERENCE ON TELECOMMUNICATIONS POLICY IN EDUCATION, ATHENS, GEORGIA, DEC 4-6, 1968
* CARPENTER, C.R., EDITOR * MEANEY, JOHN W., EDITOR

TELECOMMUNICATIONS: TOWARD NATIONAL POLICIES FOR EDUCATION

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

// CPB, JCT, 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 (JCT)
SHOULD INSURE THE RECOGNITION OF EDUCATION'S SHARE IN NEW TECHNOLOGIES, THAT JCT SHOULD
EMPHASIZE THE IMPORTANCE OF THE OPPORTUNITY THE TECHNOLOGY NOW EXISTS TO BRING TWO-WAY CABLE
COMMUNICATIONS INTO THE AMERICAN HOME, THAT JCT SHOULD HELP WITH STRATEGY TO USE
COMMUNICATION MEDIA IN ATTACKING SOCIAL PROBLEMS, THAT JCT SHOULD JOIN WITH OTHER AGENCIES TO
BRING ABOUT COOPERATIVE PRODUCTION OF INSTRUCTIONAL MATERIALS, AND THAT JCT SHOULD URGED THE
UNITED STATES OFFICE OF EDUCATION TO EXPAND ITS PROGRAMS FOR TRAINING FACULTY AND TECHNICIANS
IN THE USE OF TELECOMMUNICATIONS. (MP) ERIC

4987C

*** PARKER, LORNE A.

SCA - A NEW MEDIUM

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

// ETV-SCA, SCA-REGULATION FM-RADIO WHA-RADIO WISCONSIN-UNIV EXTENSION-WK

* THIS BOOK PRESENTS A HISTORICAL ANALYSIS OF SCA UNDER THOSE CATEGORIES - TECHNICAL, HISTORICAL,
LEGAL, AND UTILIZATIONAL - ESSENTIAL FOR AN UNDERSTANDING OF ITS POTENTIAL. CHAPTER I
INTRODUCES AND GIVES A BRIEF HISTORY OF THE SCA. CHAPTER II TRACES THE TECHNICAL DEVELOPMENT
OF THE MULTIPLEXING THEORY FROM THE SPARK TRANSMITTER DEVELOPED BY MARCONI TO THE PRESENT FORM
OF FM MULTIPLEXING THAT WAS DEMONSTRATED BY MAJOR ARMSTRONG IN 1955. THE LEGAL AND REGULATORY
ASPECTS OF SCA ARE DISCUSSED IN CHAPTER III. "THE COMMERCIAL FM STATIONS STARTED USING
MULTIPLEXING OUT OF ECONOMIC NECESSITY. THEY OBTAINED REVENUE BY SELLING BACKGROUND MUSIC
TRANSMITTED ON THEIR SCA CHANNELS. SCA PROVIDED THE FINANCIAL MEANS BY WHICH MOST FM STATIONS
ARE ABLE TO CARRY ON THEIR BROADCAST FUNCTION. THIS AND OTHER COMMERCIAL UTILIZATIONS ARE
DISCUSSED IN CHAPTER IV." "CHAPTER V DISCUSSES THE EDUCATIONAL UTILIZATION OF SCA. WHA-RADIO,
A SERVICE OF UNIVERSITY EXTENSION, THE UNIVERSITY OF WISCONSIN, WAS ONE OF THE FIRST
EDUCATIONAL FM STATIONS TO ADOPT AND UTILIZE THE SCA CHANNEL FOR EDUCATIONAL PURPOSES.
BECAUSE OF THIS FACT, CHAPTER VI MAINLY DEALS WITH THE EDUCATIONAL SCA UTILIZATION IN WISCONSIN.
CHAPTER VI IS A SUMMARY OF THE HISTORY OF SCA AND GIVES CONCLUSIONS AS TO NEEDS AND PROBABLE
TRENDS. "IT HAS TAKEN THIRTY-TWO YEARS FOR THE USE TO CATCH UP WITH THE TECHNOLOGY OF FM
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
VERSIOHN OF THIS BOOK CAN BE FOUND IN THE AUTHOR'S ARTICLE IN EDUCATIONAL BROADCASTING REVIEW.
(SEE 47081). LC

8700C

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DIALING UP A DIALOGUE ON CABLE

BROADCASTING 80:22, P45, MAY 31, 1971

// OVERLAND-PARK KANSAS HOMEBOUND-CHILDREN SHOPPING CATV-TWO-WAY TELECAST-INC
VICOR-MANUFACTURING

BEGINNING JUNE 23, 1971, AN EXPERIMENT WILL BE CONDUCTED IN OVERLAND PARK, KANSAS, WHICH WILL TEST
POSSIBLE USES OF TWO-WAY CCCOMMUNICATION 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, TELECAST, INC., WHICH WILL
CONDUCT THE EXPERIMENT, WILL ALSO TEST THE APPLICATION OF TWO-WAY CATV FOR SHOPPING, FIRE AND
HURRICANE ALARM NETWORKS, AND OPINION SURVEYS. JK
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*** J- STUDENTS QUIZ EDITIONS ACROSS US // CALIFORNIA SACRAMENTO-STATE-UNIV IOWA-STATE-UNIV
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UCLA

*** TEACHING BY TELEPHONE // TOPERA KANSA S SECONDARY-ED TEACHER-SHARING COURSE-ENRICHMENT
UCL A ADULT EXTENSION CLE CORNELL INDUSTRY UNIVERSITY ENGINEERING ELECTRONIC
NEW-YORK-CITY LOS-ANGELES LOS-ANGELES ENCHILDREN

*** INITIAL EXPERIENCE WITH ENCODED TWO-WAY MEDICAL TELEVISION // LOS-ANGELES CALIFORNIA
OCR. POSTGRADUATE-ED MEDICAL-ED INSERVICE-ED MODERATOR EVALUATION QUESTIONNAIRE KCET
VIDEOTAPE-RECORD COST 4931C

UCONN

*** TALKBACK AT UCONN 4926C

UNDERGRADUATE

*** UNDERGRADUATE DIAL-ACCESS LEARNING SYSTEM // COLUMBUS OHIO-STATE-UNIV HIGHER-ED
LEARNING-CENTER COMPUTER COST HOME-STUDY 4112A
UTILIZING *** POSTGRADUATE MEDICAL EDUCATION IN MAINE — A NEW EXPERIMENT UTILIZING TWO-WAY RADIO AND TELEVISION

UW *** PRELIMINARY REPORT ON THE SURVEY CARRIED OUT FOR EVALUATING THE ELECTRO-WRITER COURSE IN WISCONSIN

UYUMBICHO *** PROJECT EAR, EDUCATIONAL AMATEUR RADIO // HARRISON NEW-YORK UYUMBICHO EQUADOR INTERNATIONAL-TELEPHONE CROSS-CULTURAL-TELEPHONE PRIMARY-ED CURRICULUM-ENRICHMENT COMMUNICATION-SKILLS INTERNATIONAL-EDUCATIONAL-NETWORK

VERB *** AUDIOVISUALS ENRICH ISOLATED SCHOOLS // CARBON-COUNTY WYOMING CCC M LEARNING CENTER MULTIMEDIA-LIBRARY COURSE-ENRICHMENT REGIONAL-COOPERATION ELECTROWRITER VERB

*** VICTOR ELECTROWRITER REMOTE BLACKBOARD VERB // CONTINUING-ED INSERVICE-ED CURRICULUM-ENRICHMENT COURSE-ENRICHMENT

*** SPREADING THE NCR ON THE NEW MATH // NORTHWEST-IA-TELEWRI-PROJECT IOWA TEACHER-ED INSERVICE-ED ADULT-ED MATHEMATICS PROGRAMMED-TEXTS VISUAL-AIDS ELECTROWRITER VERB COST FORD-FOUNDATION

*** IOWA TEACHERS LEARN MATH VIA VERB // NORTHWEST-IA-TELEWRI-PROJECT CEDAR-FALLS STATE-COLLEGE-OF-IA CHICAGO URBANA ILLINOIS-UNIVERSITY INSERVICE-ED TEACHER-ED ELECTROWRITER

*** FRENCH IS TAUGHT OVER VERB // SARATOGA HANNA ENCAPSULATION SKILLER WYOMING CCC SECONDARY-ED CURRICULUM-ENRICHMENT ELECTROWRITER TITLE-I INSTRUCTIONAL-MATERIALS CENTER

*** TEACHERS EARN GRADUATE CREDIT VIA VERB // WYOMING-UNIVERSITY CCC ELECTRIC EDUCATION-ED GRADUATE-ED PROBLEM-SOLVING VISUAL-AIDS ELECTROWRITER

VERMONT *** PHYSICAL THERAPISTS BEGIN LEARNING BY RADIO // NEW-YORK VERMONT MASSACHUSETTS ALBANY-REGIONAL-BIOLOGICAL-PREGNANCY CONTINUING-ED MEDICAL-ED FM-RADIO

*** TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION, FOUR YEARS OF EXPERIENCE WITH A NEW METHOD OF PRESENTATION // ALBANY NEW-YORK BOSTON MASSACHUSETTS BURLINGTON VERMONT NEW-HAVEN CONNECTICUT HARVARD YALE ALBANY-MEDICAL-COLLEGE TUFFS

VERMONT-COLLEGE-OF-MEDICINE *** TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION, FOUR YEARS OF EXPERIENCE WITH A NEW METHOD OF PRESENTATION // ALBANY NEW-YORK BOSTON MASSACHUSETTS BURLINGTON VERMONT NEW-HAVEN CONNECTICUT HARVARD YALE ALBANY-MEDICAL-COLLEGE TUFFS

VERMONT-COLLEGE-OF-MEDICINE *** TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION, FOUR YEARS OF EXPERIENCE WITH A NEW METHOD OF PRESENTATION // ALBANY NEW-YORK BOSTON MASSACHUSETTS BURLINGTON VERMONT NEW-HAVEN CONNECTICUT HARVARD YALE ALBANY-MEDICAL-COLLEGE TUFFS

VERMONT-UNIVERSITY *** EXPERIENCES WITH TWO-WAY TELEVISION IN A TEACHING HOSPITAL COMPLEX // VERMONT-UNIVERSITY KANSAS-UNIVERSITY REMOTE-PATIENT-MONITORING X-RAY BODY-ENVELOPE-SATELLITE FLUOROSCOPIC-TRANSITION SATELLITE COAXIAL-CABLE COST

VICON MANUFACTURING *** DIALING UP A DIALOGUE ON CABLE // OVERLAND-PARK KANSAS HOMEBOUND-CHILDREN SHOPPING CATV-TWO-WAY TELECAST-IN VICON MANUFACTURING CATV-TWO-WAY TELECAST-IN-CATV VICON MANUFACTURING

VICTOR *** TEACHING ADULTS VIA TELELEARNING AND ELECTROWRITER // VICTOR ELECTRONIC REMOTE BLACKBOARD

*** VICTOR ELECTROWRITER REMOTE BLACKBOARD, VERB // CONTINUING-ED INSERVICE-ED CURRICULUM-ENRICHMENT COURSE-ENRICHMENT


VIDEO *** DIAL-ACCESS VIDEO AND AUDIO LEARNING SYSTEM // COLUMBUS OHIO-STATE-UNIVERSITY HIGHER-ED LEARNING-CENTER BIOLOGY CHEMISTRY COMPUTER TV HOME-STUDY

*** BETTER VIDEO CONFERENCES // HOLMES NEW-JERSEY MURRAY-HILL CCTV VISUAL-AIDS AUTOMATIC-CHANGING BALL-LABS

*** OFF-CAMPUS GRADUATE TEACHING USING AUDIO VIDEO LINK

*** OFF-CAMPUS GRADUATE CENTER USES AUDIO VIDEO LINK // COLUMBUS DAYTON OHIO-STATE-UNIVERSITY

VIDEOTAPE *** THE CLASSROOM COMES TO THE ENGINEER // ACE INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED IRRS FM-RADIO VISUAL-AIDS VIDEOTAPE ELECTROWRITER CATV SATELLITE DOMESTIC COST 2866-2860-MHZ

*** ELECTROVISION WONDERLAND, HARKING OF THE FUTURE // NEW-PALTZ NEW-YORK STATE-UNIVERSITY-COLLEGE HIGHER-ED EDUCATION-LAW ELECTROWRITER TV VIDEOTAPE LINE-OF-SUCCESS NEW-YORK-TELEPHONE-CO

*** THE STANFORD INSTRUCTIONAL TELEVISION NETWORK // CALIFORNIA INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED ENGINEERING IRRS 2866-2860-MHZ FM-RADIO 4-MHZ CCTV VIDEOTAPE HOME-STUDY ACADEMIC COST FCC

*** EXPERIMENTAL SERIES OF LECTURES FOR TEACHERS UTILIZES THE COMPUTERS, TELEVISION AND THE TELEPHONE // BROOKLYN NEW-YORK TEACHER-ED CAT PROGRAMMED-EDUCATION INDIVIDUAL-INSTRUCTION VIDEOTAPE IBM

VIDEOTAPE-RECORD *** INITIAL EXPERIENCE WITH ENCODED TWO-WAY MEDICAL TELEVISION // LOS ANGELES CALIFORNIA UCLA POSTGRADUATE-MEDICAL-COLLEGE INSERVICE-ED MODERNIZATION EVAUATION-QUESTIONNAIRE KGET VIDEOTAPE-RECORD COST

VIEWPHONE *** AROUND THE CORNER, THE VIEWPHONE

VIRGINIA *** TELELEARNING, APPALACHIA'S IN-SERVICE CLASSROOM OF THE AIR // TENNESSEE OHIO WEST-VIRGINIA KENTUCKY VIRGINIA INSERVICE-ED TEACHER-ED HEAD-START APPALACHIA-EDUCATIONAL-LAB EDUCATION-TELEPHONE MICHIGAN-TELEPHONE CABINET

*** THE REST, VIRGINIA, TEST OF THE MTR CORPORATION'S INTERACTIVE TELEVISION SYSTEM // CATV-TWO-WAY COMPUTER MICROWAVE INTERACTIVE-TELEVISION HOME-STUDY PRIMARY-ED MATHEMATICS CAVIAL ACCESS TV RESEARCH-TRANSMISSION-CO CONTINENTAL-TELEPHONE-CO

VISIT *** STUDENTS VISIT VIA SATELLITE

VISUALS *** VISUALS FOR TELELEARNING AND CAMPUS AUDIO NETWORKS // MISSOURI STEPHENS-COLLEGE MICHIGAN WEST-INDIAN-UNIVERSITY HIGHER-ED HISTORY-TELECONSULT VISUAL-AIDS ELECTROWRITER HOME-STUDY

VISUAL-AIDS *** HAT BY TELEPHONE // WESTERN-STATES-SMALL-SCHOOLS PROJECT NEVADA OREGON IDAHO UTAH SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS
*** EDUCATION BY TELEPHONE // DESCRIPTION-TELELECTURE OMAMA-UNIV HIGHER-ED TEACHER-SHARING VISUAL-AIDS 0595C

*** MULTIMEDIA FIELDTRIP REPLACEMENTS // ILLINOIS-UNIV HIGHER-ED AGRICULTURE VISUAL-AIDS 0573C

*** TELECOMMUNICATIONS IN FL INSTRUCTION // SAN-DIEGO CALIFORNIA WEST GERMANY INTERNATIONAL-TELECONF SECONDARY-ED COURSE-ENRICHMENT GERMAN-LANGUAGE VISUAL-AIDS 0452C

*** BETTER VIDEO CONFERENCES // HOLMDEL NEW-JERSEY MURRAY-HILL CCTV VISUAL-AIDS AUTOMATIC-SWITCHING BELL-LAP 4627C

*** TELETEACHING, THE PARTY-LINE REVIVED // MINNESOTA-UNIV EXTENSION AGRICULTURE PRESENTATION-SKILLS MODERATOR VISUAL-AIDS COST 4692C


*** TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION, FOUR YEARS OF EXPERIENCE WITH A NEW METHOD OF PRESENTATION // ALBANY NEW-YORK BOSTON MASSACHUSETTS BURLINGTON VERMONT NEW-aven CONNECTICUT HARVARD YALE ALBANY MEDICAL COLLEGE TUPPS VERNON COLLEGE OF MEDICINE CONTINUING-ED MEDICAL-ED RADIO VISUAL-AIDS COST 4051C

*** TELEPHONE TEACHERS // HOMEBOUND-CHILDREN OMAMA-UNIV VISUAL-AIDS COST AT-T 0470C

*** SUGGESTIONS FOR EFFECTIVE TELE-Lecture PRESENTATIONS // COORDINATOR MODERATOR PRE-PLANNING PRESENTATION-SKILLS VISUAL-AIDS ELECTROWRITER 0419C

*** TEACHERS EARN GRADUATE CREDIT VIA VERA // WYOMING-UNIV CFCIC TEACHER-ED GRADUATE-ED PROBLEM-SOLVING VISUAL-AIDS ELECTROWRITER 4700C

*** TEACHING BY CLOSED-CIRCUIT TELEPHONE IN NINE CENTRAL SCHOOLS // SOUTH-KORTRIGHT NEW YORK SECONDARY-ED PRIMARY-ED INSERVICE-ED TEACHER-ED EDUCATION-ADMINISTRATION SPEECH-THERAPY CURRICULUM ENRICHMENT INTERNATIONAL-TELECONF CUBA HAVANA-UNIV SPANISH-LANGUAGE VISUAL-AIDS ELECTRWIRTER COLUMBIA-UNIV NEW YORK TELEPHONE-CO 4494C

*** VISUALS FOR TELELECTURE AND CAMPUS AUDIO NETWORKS // MISSOURI STEPHENS-COLLEGE MICHIGAN WESTERN-WICHITA-UNIV HIGHER-ED HISTORY-TELECONF VISUAL-AIDS ELECTROWRITER HOME-STUDY 0550C

*** SPOOKING THE WORLDS ON THE EV OLUTION // NORTHWEST-IOWA-TELEWRITER-PROJECT IOWA TEACHER-ED INSERVICE-ED ADULT-ED MATHEMATICS PROGRAMMED-TEXTS VISUAL-AIDS ELECTROWRITER VERA COST 0667C

*** PARTY-LINE FOR NURSES // WISCONSIN-UNIV EXTENSION-UW INSERVICE-ED CONTINUING-ED EVALUATION QUESTIONNAIRE VISUAL-AIDS ETH-SCA FM RADIO 4133C


*** HOMEBOUND-LESS // WATERLOO IOWA HOMEBOUND-CHILDREN PRIMARY-ED SECONDARY-ED VISUAL-AIDS FIELDTRIP 0566C

*** TELEPHONIC SEMINAR IN FOREIGN-RELATIONS // COLUMBIA MISSOURI SECONDARY-ED COURSE-ENRICHMENT ADULT-ED VISUAL-AIDS INDEPENDENT-STUDY 4010A

*** VIS A picture hookups connect two companies // BOEING LOCKHEED VISUAL-AIDS LDL 4670C


*** ART BY TELEPHONE, DESIGN AAT EVALUATION // NEVADA UTAH OREGON IDAHO WESTERN-STATES-SMALL-SCHOOLS PROJECT SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS LEASED-LINES TITLE-I 4519A

*** HOLLIE GREAT AMERICAN // WALWORTH WISCONSIN BIG-FOOT HIGH-SCHOOL SECONDARY-ED COURSE-ENRICHMENT VISUAL-AIDS MAILED-MATERIALS 0444C

*** PHONE LECTURES LINK COMMUNITY HOSPITALS TO UNIVERSITY CENTERS // REGIONAL-MEDICAL-PROGRAM-PACIFIC-WESTERN NEW YORK BURFORD NEW YORK STATE-UNIV-OF NEW YORK ROSWELL PARK MEMORIAL INSTITUTE MEDICAL-ED CONTINUING-ED ENGLISH-LANGUAGE VISUAL-AIDS MAIL-MAILED MATERIALS COST LEASED-LINES 4720C

*** MEDIC, A COOPERATIVE VENTURE IN CONTINUING MEDICAL EDUCATION // MARYLAND CONTINUING-ED MEDICAL-ED PARAMEDICAL-ED EVALUATION-ATTENDANCE-RECORD EVALUATION-SUBJECTIVE VISUAL-AIDS MAIL-MAILED MATERIALS COST TAPE-ED 4131C

*** ART BY TELEPHONE // WESTERN-STATES-SMALL-SCHOOLS PROJECT OREGON NEVADA UTAH SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS MAIL-MAILED MATERIALS SLOW SCAN TV 4715C

*** TELELECTURE BRINGS FAMOUS DESIGNER TO TEXTILE AND CLOTHING STUDENTS // SOUTH DAKOTA STATE UNIV HIGHER-ED COURSE-ENRICHMENT HOME-ECONOMICS PRE-PLANNING VISUAL-AIDS MAIL-MAILED MATERIALS TAPE RECORD 0466C

*** TEACHING AN EXTENSION COURSE BY TELE-Lecture // ILLINOIS-UNIV GRADUATE-ED LIBRARY-SCIENCE VISUAL-AIDS MAILED-MATERIALS WATS 4119A

*** CTN-SCA PROGRAM MANEBOOK // WISCONSIN-UNIV EXTENSION-UW PROGRAMMING PRESENTATION-SKILLS VISUAL-AIDS MODERATOR EVALUATION-CHECKLIST 4709C

*** TELELECTURE // WISCONSIN-UNIV LACROSSE-STATE COLLEGE EXTENSION-UW HIGHER-ED CURRICULUM ENRICHMENT PRESENTATION-SKILLS VISUAL-AIDS PRE-PLANNING PUBLICITY COST EVALUATION QUESTIONNAIRE LACROSSE TELEPHONE-ED 0544C

*** THE CLASSROOM COMS TO THE ENGINEER // ACE INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED ITS FM-RADIO VISUAL-AIDS VIDEOTAPE ELECTROWRITER CATV SATELLITE DOMESTIC COST 2595-2900 FR 4644C

*** FEASIBILITY OF INCORPORATING TELELECTURE IN PRESENTING A TEACHING METHODS COURSE TO VOCATIONAL TEACHERS IN I NSERVICE-ED TEACHER-ED EVALUATION CONTROL GROUP EVALUATION PRE-AND-POST-TESTING EVALUATION DTS EMPLOYMENT-TEST COST 4504C

VOCATIONAL