

SATELLITE TELECONFERENCING

an annotated bibliography



EDSAT Center
1225 West Dayton Street
Madison, Wisconsin 53706

SATELLITE TELECONFERENCING

AN ANNOTATED BIBLIOGRAPHY

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September 1972

SATELLITE TELECOMMUNICATIONS

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Edited by

W. J.

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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

PREFACE

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Director
The EDSAT Center

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 communications 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 Uyumbicho, 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

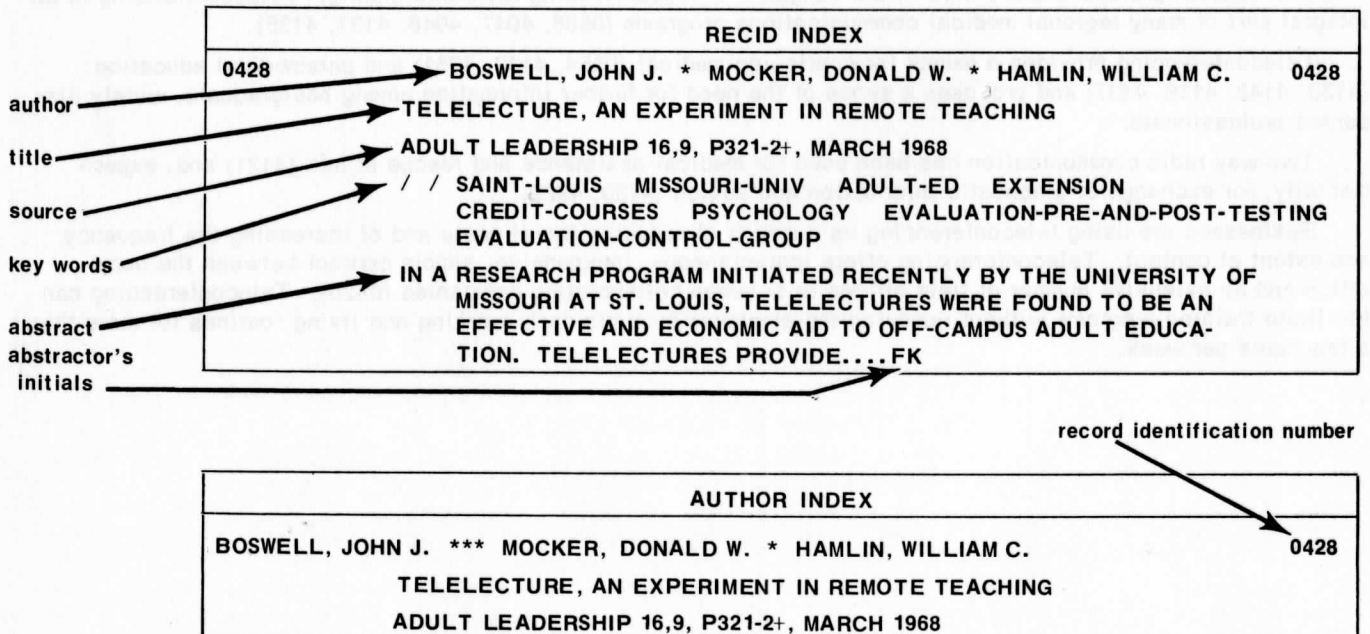
The bibliography is made up of three parts: a Record Identification Index, an Author Index, and a Permuted Index.

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INDEX, is a list of abstracted references to books, parts of books, journal articles, conference papers, news items and unpublished papers.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

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

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

The full reference with key words and abstract in the examples below appears in the Recid Index in its numeric position between 0427 and 0429; it appears without the key words and abstract in the Author Index under BOSWELL, JOHN J., 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 Permuted Index, the user will find only the title, the key words and the record identification number, and with the help of this number, must refer back to the Recid Index for full identification of the citation.



PERMUTED INDEX

title words	REMOTE	*** AEROSPACE ENGINEERS ATTEND GRADUATE SCHOOL BY REMOTE CONTROL	4061
	TEACHING	*** EXPERIMENTATION TO DETERMINE THE FEASIBILITY OF REMOTE SUPERVISION OF STUDENT TEACHERS	4126
		*** TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING	0428
*** TEACHING BY TELEPHONE, AN EXPERIMENT IN LANGUAGE TEACHING		4009	
*** TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING		0428	
*** AMPLIFIED TELEPHONE AS A TEACHING MEDIUM		4020	
*** GRADUATE TEACHING BY TELEPHONE AND RADIO		0605	
key words	ADULT-ED	*** TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING / / SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-CONTROL-GROUP	0428
	EVALUATION-CONTROL-GROUP	*** SPREADING THE WORD ON THE NEW MATH / / NORTHWEST-IOWA-TELEWRITER-PROJECT IOWA TEACHER-ED INSERVICE-ED ADULT-ED MATHEMATICS PROGRAMED-TESTS VISUAL-AIDS ELECTROWRITER VERB COST FORD-FOUNDATION	0467
		*** A SITUATION TEST OF TRAINING EFFECTIVENESS / / VOCATIONAL-ED ADULT-ED MULTIMEDIA-INSTRUCTION EVALUATION	4014
		*** A STUDY OF TEACHING EXTENSION CLASSES BY TELELECTURE / / WEST-VIRGINIA-UNIV HIGHER-ED MATHEMATICS ENGINEERING PROBLEM-SOLVING ELECTROWRITER VISUAL-AIDS EVALUATION-T-TEST EVALUATION-F-RATIO EVALUATION-MANN-WHITNEY-U-TEST EVALUATION-QUESTIONNAIRE EVALUATION-CONTROL-GROUP	4716
	*** DEVELOPMENT OF A STANDARDIZED TELEPHONE INTERVIEW FOR THE MEASUREMENT OF LANGUAGE CHANGES IN YOUNG CHILDREN / / EVALUATION-CONTROL-GROUP	4021	
	*** TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING / / SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-PRE-AND-POST-TESTING EVALUATION-CONTROL-GROUP	0428	
	*** EXPERIMENTATION TO DETERMINE THE FEASIBILITY OF REMOTE SUPERVISION OF STUDENT TEACHERS / / TEACHER-ED HOME-ECONOMICS EVALUATION-CONTROL-GROUP COST	4126	
	*** ADULT EDUCATION BY MEANS OF TELEPHONE / / WISCONSIN-UNIV EXTENSION-UW GRADUATE-ED CONTINUING-ED HOME-ECONOMICS EVALUATION-CONTROL-GROUP ETN ARTICULATED-INSTRUCTION	4507	
	*** FEASIBILITY OF INCORPORATION TELELECTURE IN PRESENTING A TEACHING METHODS COURSE TO VOCATIONAL TEACHERS / / INSERVICE-ED TEACHER-ED EVALUATION-CONTROL-GROUP EVALUATION-PRE-AND-POST-TESTING EVALUATION-OTIS-EMPLOYMENT-TEST COST	4504	
	*** A COMPARISON OF THE EFFECTIVENESS OF FACE-TO-FACE AND REMOTE TEACHING IN COMMUNICATING EDUCATIONAL INFORMATION TO ADULTS / / EXTENSION ADULT-ED EVALUATION-CONTROL-GROUP EVALUATION-PRE-AND-POST-TESTING	0421	

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.

AUTHOR INDEX	
FOX, J.W. *** PERRATON, H.D. * WADE, D.A. * NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT	
NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT *** PERRATON, H.D. * WADE, D.A. * FOX, J.W.	
PERRATON, H.D. *** WADE, D.A. * FOX, J.W. * NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT	
WADE, D.A. *** PERRATON, H.D. * FOX, J.W. * NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT	

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.

RECID INDEX		
4018	SCHATZ, SHARON	4018
	FACSIMILE TRANSMISSION IN LIBRARIES, A STATE-OF-THE-ART SURVEY WASHINGTON, LIBRARY OF CONGRESS. INFORMATION SYSTEMS OFFICE, 1967. 26P. ERIC ED 016 492	

JOURNAL CITATION		
4062	EDUCATIONAL TECHNOLOGY 7,23, P9-10, DEC 15, 1967	4062
	<div style="display: flex; justify-content: space-around; margin-top: 5px;"> journal title volume and issue paging date </div>	

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.

ANALYTIC CITATION		
4963	PAGES 7-8 IN ORLICH, DONALD C. AND CHARLES O. HILEN (EDITORS)	4963
	TELECOMMUNICATIONS FOR LEARNING. EVERETT, WASHINGTON, GENERAL TELEPHONE COMPANY OF THE NORTHWEST AND WASHINGTON STATE UNIVERSITY, 1969	
paging	→	
author	→	
title	→	
		← imprint

ABBREVIATION LIST

ACE	Association for Continuing Education	ITFS	Instructional television fixed service
AT+T	American Telephone and Telegraph	JCET	Joint Council on Educational Telecommunications
CAI	Computer assisted instruction	LDX	Long distance xerography
CATE	Center for the Creative Application of Technology to Education (Texas A+M University)	MEDIC	Medical Education's Dedicated Instructional Channel
CATV	Cable television	NASA	U.S. National Aeronautics and Space Administration
CCCIC	Carbon County Coordinated Instructional Center (Wyoming)	NATO	North Atlantic Treaty Organization
CCTV	Closed circuit television	NEA	National Education Association (U.S.)
CIC	Committee on Instructional Cooperation	New-York-RMP	New York Regional Medical Program
CIRM	International Radio Medical Center (Rome, Italy)	OMEN	Ohio Medical Education Network
CMT	Council on Medical Television	PEC	Program Evaluation Checklist (Evaluation tool used by University of Wisconsin—Extension)
CPB	Corporation of Public Broadcasting	SCA	Subsidiary Communications Authorization
DAVI	Department of Audiovisual Instruction (National Education Association)	SUC	State University College (New York)
EEG	Electroencephalogram	TDAL	Telephone Dial Access Library (University of Wisconsin)
EEN	Eastern Educational Television Network	Title I	Title I of the Elementary and Secondary Education Act
EKG	Electrocardiogram	Title III	Title III of the Elementary and Secondary Education Act
ERP	Effective radiated power	UCLA	University of California at Los Angeles
ESEA	Elementary and Secondary Education Act (U.S.)	UNIVEX	Communications loop used by University of Illinois Division of University Extension
ETN	Educational Telephone Network (Wisconsin)	VERB	Victor Electrowriter Remote Blackboard
ETV	Educational television	WASB	Wisconsin Association of School Boards
FCC	U.S. Federal Communications Commission	WATS	Wide area telephone service
GE	General Electric		
GT+E	General Telephone and Electronics		
IBM	International Business Machines		
IRMP	Intermountain Regional Medical Program		

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- 0419C *** AMERICAN TELEPHONE AND TELEGRAPH 0419C
 SUGGESTIONS FOR EFFECTIVE TELE-LECTURE PRESENTATIONS
 AMERICAN TELEPHONE AND TELEGRAPH. BROCHURE. N.P., N.D.
 // COORDINATOR MODERATOR PRE-PLANNING PRESENTATION-SKILLS VISUAL-AIDS ELECTROWRITER
 THE AT+T HANDBOOK PRESENTS SUGGESTIONS TO SPEAKERS, COORDINATORS AND MODERATORS OF TELE-LECTURES. CONTAINING MANY LISTS OF HELPFUL HINTS, THE HANDBOOK ADVISES LECTURERS IN THE AREAS OF 1) ENHANCING THE PRIOR KNOWLEDGE OF BOTH SPEAKER AND AUDIENCE 2) IMPROVING PRESENTATION SKILLS SUCH AS VOCAL CHARACTERISTICS AND TIMING 3) USING VISUAL AIDS 4) USING A TELEWRITER AND 5) PLANNING WHAT SHOULD OCCUR IMMEDIATELY PRIOR TO A SESSION. SUGGESTIONS TO CONFERENCE COORDINATORS ARE MADE IN THE AREAS OF 1) ROOM ARRANGEMENT, SEATING AND EQUIPMENT 2) PLACING THE CALL AND 3) INTRODUCING THE SESSION. A LIST OF HELPFUL HINTS FOR TELE-LECTURE MODERATORS IS ALSO INCLUDED. FK
- 0420C *** WETMORE, WARREN C. 0420C
 BOEING NETWORK CUTS APOLLO WORK COSTS
 AVIATION WEEK AND SPACE TECHNOLOGY 90,6, P43-6, FEB 10, 1969
 // INDUSTRY NASA LDX BELL-TELEPAK-A THERMOFAX REAR-SCREEN-PROJECTORS AD-HOC-CONFERENCES LEGAL-ASPECTS LEASED-LINES
 THIS ARTICLE DESCRIBES HOW THE BOEING CO. USES TELECONFERENCING FOR MEETINGS BETWEEN EMPLOYEES CONNECTED WITH THE COMPANY'S APOLLO TIE CONTRACT. SOME SPECIFICS OF THE RELEVANT TECHNOLOGY ARE GIVEN. LINKING TOGETHER AS MANY AS 250 EMPLOYEES, BOEING'S BLUE NET LEASED LINES ARE USED FOR AUDIO PURPOSES, AND A XEROX LDX TELEPHOTOGRAPHY SYSTEM IS USED FOR VISUAL EFFECTS. CLOSED CIRCUIT TELEVISION WAS CONSIDERED, BUT THE LDX SYSTEM IS MUCH LESS EXPENSIVE. THE LDX TERMINALS ARE CONNECTED BY THE BELL SYSTEM'S TELEPAK, A WIDE-BAND LEASED CIRCUIT WHICH FEDERAL LEGISLATION REQUIRED BOEING TO RENT ON A FULL-TIME BASIS, EVEN THOUGH IT IS NOT USED AT ALL TIMES. ALSO UTILIZED ARE THERMOFAX MACHINES AND REAR SCREEN PROJECTORS. MEETINGS ARE HELD AT TELECONFERENCING 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 CONVENED. GROUP DISCUSSIONS GENERALLY FOLLOW A PRESENTATION, AND REGIONAL CHAIRMEN CAN SWITCH SPECIFIC STATIONS 'IN' OR 'OUT' OF AN ON-GOING MEETING. THE ARTICLE CONCLUDES WITH A LIST OF POTENTIAL IMPROVEMENTS. FK
- 0421C *** BLACKWOOD, HELEN * TRENT, CURTIS 0421C
 A COMPARISON OF THE EFFECTIVENESS OF FACE-TO-FACE AND REMOTE TEACHING IN COMMUNICATING EDUCATIONAL INFORMATION TO ADULTS
 MANHATTEN, KANSAS STATE UNIVERSITY. UNIVERSITY EXTENSION SERVICE, 1968. 16P. (EXTENSION STUDY 4). 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 POSTTESTS COLLECTED LEVEL OF KNOWLEDGE AND PERSONAL INFORMATION FROM 71 WOMEN DURING A SHORT COURSE ON MONEY MANAGEMENT GIVEN BY UNIVERSITY EXTENSION SPECIALISTS IN RENO COUNTY. THE SAMPLE WAS RANDOMLY DIVIDED INTO AN EXPERIMENTAL AND CONTROL GROUP. IT WAS FOUND THAT NO SIGNIFICANT DIFFERENCE IN AMOUNT OF LEARNING EXISTED. SEVERAL TENDENCIES, NOT STATISTICALLY SIGNIFICANT, WERE REVEALED, AGE WAS NEGATIVELY ASSOCIATED WITH AMOUNT LEARNED, LEVEL OF EDUCATION WAS POSITIVELY ASSOCIATED WITH PRE AND POSTTEST SCORES, SCORES WERE HIGHER IN THE AFTERNOON THAN MORNING, ALTHOUGH ATTITUDES WERE HIGHER IN THE MORNING. IT WAS CONCLUDED THAT EITHER TEACHING TECHNIQUE COULD BE USED RESULTING IN SIMILAR AMOUNTS OF LEARNING. IMPLICATIONS FOR EXTENSION WORKERS AND USE OF REMOTE TEACHING TECHNIQUES ARE INCLUDED. ERIC
- 0422C *** SINAIKO, F. WALLACE 0422C
 PRELIMINARY EXPERIMENTS IN TELECONFERENCING
 PAGES 160-2 IN THE PROCEEDINGS OF THE NATIONAL SYMPOSIUM ON HUMAN FACTORS IN ELECTRONICS, 5TH, SAN DIEGO, CALIF., MAY 5-6, 1964. NORTH HOLLYWOOD, CALIF., WESTERN PERIODICALS CO., 1964. SEE 0478-84
 // DEFINITION-TELECONF INTERNATIONAL-TELECONF PROBLEM-SOLVING LANGUAGE CHAIRMANSHIP-ROLE NETWORKS TV TELETYPE
 EXPERIMENTAL STUDY OF THE USE OF TELECONFERENCING AS AN EFFICIENT MEANS OF GROUP COMMUNICATION. TELECONFERENCING REFERS TO THE CONDUCT OF CONFERENCES WHEN THERE ARE THREE OR MORE CONFEREES, CONFEREES ARE REMOTE FROM ONE ANOTHER AND NOT ALL PARTICIPANTS SPEAK THE SAME LANGUAGE. THE INSTITUTE FOR DEFENSE ANALYSES PERFORMED A STUDY TO LEARN WHETHER INTERIM PROCEDURES COULD BE SPECIFIED TO ENABLE TELECONFERENCES TO BE CONDUCTED EFFICIENTLY IN THE NEAR FUTURE AND WHAT ADDITIONAL RESEARCH WAS NEEDED TO FILL GAPS IN CURRENT KNOWLEDGE RELEVANT TO TELECONFERENCING. A LABORATORY FOR CONDUCTING EXPERIMENTS IN TELECONFERENCE PROCEDURES WAS ESTABLISHED, AND FIVE SERIES OF EXPERIMENTS RUN. THE LABORATORY WORK INCLUDED TELETYPE, TELEPHONE, AND TELEVISION COMMUNICATIONS MEDIA AND WAS DONE TO PROVIDE FLEXIBLE MEANS FOR VARYING NETWORK STRUCTURES, CHAIRMANSHIP ROLES, LANGUAGE SERVICES, AND CONFERENCE TASKS. IT WAS FOUND THAT, FOR NEGOTIATION OR BARGAINING AMONG REMOTE CONFEREES, THE MOST IMPERSONAL MEDIA WERE PREFERRED. AIAA. SEE 0478-84
- 0424C *** ATHERTON, LAWRENCE L. 0424C
 CLASSROOM PARTY-LINE
 OHIO SCHCCLS 42, P25+, DEC 1964
 // OHIO YELLOW-SPRINGS-HIGH-SCHOOL SECONDARY-ED COURSE-ENRICHMENT AMERICAN-INSTITUTIONS COST
 YELLOW SPRINGS HIGH SCHOOL, OHIO, HAS INITIATED IN COOPERATION WITH OHIO BELL A TELELECTURE SYSTEM USING AMPLIFIED SPEAKER PHONES TO BRING SPECIALIZED INFORMATION INTO THE CLASSROOM. TELELECTURES WERE USED IN THE HIGH SCHOOL'S AMERICAN GOVERNMENT COURSE IN CONJUNCTION WITH A DISCUSSION OF OHIO'S COMPLEX WELFARE SYSTEM. IT WAS FELT THAT REPRESENTATIVES FROM FEDERAL, STATE AND PRIVATE PROGRAMS COULD BEST EXPLAIN THEIR RESPECTIVE PROGRAMS AND THAT USING THE TELELECTURE TECHNIQUE WOULD ALLEVIATE TRAVEL COSTS AND INCONVENIENCE. INSTALLATION COST WAS APPROXIMATELY 30 DOLLARS TO RUN EXTENSION LINES FROM EXISTING PHONES TO CLASSROOMS. PORTABLE PHONE AND SPEAKER ATTACHMENT RENTAL WAS SEVEN DOLLARS PER MONTH. CM

-REC'D INDEX

0427	<p>***</p> <p>BLCK-ISLAND (A PACE PROJECT)</p> <p>AMERICAN EDUCATION 2,10, P9, NOV 1966</p>	0427
0428C	<p>*** BOSWELL, JOHN J. * MOCKER, DONALD W. * HAMLIN, WILLIAM C.</p> <p>TELELECTURE, AN EXPERIMENT IN REMOTE TEACHING</p> <p>ADULT LEADERSHIP 16,9, P221-24, MARCH 1968</p> <p>// SAINT-LOUIS MISSOURI-UNIV ADULT-ED EXTENSION CREDIT-COURSES PSYCHOLOGY EVALUATION-PRE-AND-POST-TESTING EVALUATION-CONTROL-GROUP</p> <p>IN A RESEARCH PROGRAM INITIATED RECENTLY BY THE UNIVERSITY OF MISSOURI AT ST. LOUIS, TELELECTURES WERE FOUND TO BE AN EFFECTIVE AND ECONOMIC AID TO OFF-CAMPUS ADULT EDUCATION. TELELECTURES PROVIDE TEACHER-STUDENT CONTACT WITHOUT DRAINING THE RESOURCE OF TRAINED TEACHERS. THE INITIAL ST. LOUIS EXPERIMENT PRESENTED THE SAME INTRODUCTORY PSYCHOLOGY COURSE TO THREE DIFFERENT GROUPS. ONE GROUP WAS A CONTROL GROUP (N=64) WHICH RECEIVED A TRADITIONAL LECTURE ON THE HOME CAMPUS. THE SECOND GROUP (N=63) ALSO ON THE HOME CAMPUS, RECEIVED A LIVE LECTURE WHICH WAS SIMULTANEOUSLY TRANSMITTED TO THE THIRD GROUP (N=22) LOCATED IN A REMOTE CLASSROOM. RELEVANT VARIABLES WERE VERY CLOSELY REGULATED, AND SCORES BEFORE AND AFTER THE COURSE INDICATED ALMOST NO DIFFERENCE IN LEARNING AMONG THE THREE GROUPS. THE UNIVERSITY OFFERED 9 CREDIT COURSES IN 1966-67 VIA OFF-CAMPUS TELELECTURE. ONE PROBLEM IN THESE COURSES WAS THAT THE AUDIO SYSTEM TECHNICALLY COULD NOT HANDLE ADEQUATELY A FREE EXCHANGE OF IDEAS BETWEEN A PROFESSOR AND HIS STUDENTS. A SECOND PROBLEM WAS THAT PROFESSORS ASSUMED TOO MUCH PRIOR KNOWLEDGE BECAUSE OF A LACK OF PERCEIVABLE FEEDBACK. HOWEVER, THIS PROBLEM DID NOT ARISE IN A SUCCESSFUL SERIES OF TELELECTURES WHICH DID NOT HAVE ON-THE-SPOT AUDIENCES. FK</p>	0428C
0429A	<p>***</p> <p>BUSINESS GETS EYE-TO-EYE BY PHONE</p> <p>BUSINESS WEEK, P30-1, AUGUST 14, 1965</p> <p>// PICTUREPHONE AT-T UNION-CARBIDE</p> <p>UNION CARBIDE IS COOPERATING WITH AMERICAN TELEPHONE AND TELEGRAPH COMPANY IN THE FIRST BROAD BUSINESS TEST OF PICTURE-PHONES. PICTURE-PHONES CUT DOWN ON INTEROFFICE VISITS WITHOUT DEPRIVING PEOPLE OF THE SENSE OF HAVING VISITED. AT-T IS CONSIDERING WIDE-ANGLE LENSES FOR CONFERENCES, MAGNIFYING LENSES FOR BETTER DISPLAY OF OBJECTS AND CHANGES IN THE PICTURE-PHONE ITSELF. YA</p>	0429A
0430C	<p>*** CHRISTIANA, CIEL</p> <p>LCNG-DISTANCE LECTURES BRING EXPERTS TO THE CLASSROOM</p> <p>NEW YORK STATE EDUCATION 51,2, P16-7, NOV 1963</p> <p>// NEW-YORK COLUMBIA-UNIV HIGHER-ED INTERUNIVERSITY-COOPERATION CLASSICS SATELLITE TELSTAR-II COST FORD-FOUNDATION</p> <p>IN JULY OF 1963, DR. MOSES HADAS DELIVERED THE FIRST OF 18 LECTURES TO 500 STUDENTS FROM FOUR DIFFERENT SOUTHERN NEGRO COLLEGES ON GREEK DRAMA. EDUCATORS WERE ATTEMPTING TO ANSWER THE QUESTION OF HOW TO GIVE STUDENTS THE BEST EDUCATION WITH LIMITED FUNDS. THIS INTERSCHOOL LINK WAS ACCOMPLISHED THROUGH THE USE OF TELEPHONES AND AMPLIFIED SPEAKERS AT BOTH ENDS. THE TWO-WAY AMPLIFIED PHONE CONVERSATION CONSISTED OF BOTH DR. HADAS' LECTURE AND A QUESTION AND ANSWER PERIOD. ALTHOUGH THIS SYSTEM WILL NORMALLY OPERATE ON REGULAR TELEPHONE LINES, 15 MINUTES OF THIS FIRST LECTURE WERE SENT VIA TELSTAR II TO ILLUSTRATE SATELLITE CAPABILITY. CM</p>	0430C
0432C	<p>*** CURNCH, B. KATHLEEN C.</p> <p>TELE-CLASSES IN LOS-ANGELES SCHOOLS</p> <p>CALIFORNIA EDUCATION 3,5, P3-7, JAN 1966</p> <p>// CALIFORNIA LOS-ANGELES-UNIFIED-SCHOOL-DISTRICT HOMEBOUND-CHILDREN PRIMARY-ED SECONDARY-ED MAILED-MATERIALS PACIFIC-TELEPHONE-CO</p> <p>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 ADMINISTER EXAMS. OBVIOUS ADVANTAGES 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. CM</p>	0432C
0433	<p>*** DAVIS, H.S.</p> <p>NEW APPROACH TO IN-SERVICE EDUCATION. GREATER CLEVELAND SOCIAL-SCIENCE PROGRAM</p> <p>EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45,5, P28+, MAY 1966</p>	0433

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0434C *** 0434C
 DEW-LINE FOR DRUGS
 NEWSWEEK, P55, JAN 15, 1962
 // MEDIPHONE WASHINGTON-DC GEORGE-WASHINGTON-UNIV CURRENT-AWARENESS DIAL-ACCESS MEDICINE PHARMACEUTICALS
 MEDIPHONE, HEADQUARTERED IN WASHINGTON, D.C., IS A TELEPHONE DIAL ACCESS SERVICE FOR LICENSED PHYSICIANS, DESIGNED TO PROVIDE THEM WITH UP-TO-DATE INFORMATION ON THE LATEST DEVELOPMENTS IN DRUGS. THE RESPONSE INCLUDES THE NAMES OF DRUGS, DOSAGES, SIDE EFFECTS AND WHAT TO DO ABOUT THEM. THE AUTOMATED LIST OF INFORMATION WAS GATHERED BY RESEARCHERS AND TOOK A FULL YEAR TO COMPILE. DATA WAS COLLECTED FROM PHARMACOLOGICAL TEXTBOOKS, JOURNALS, DRUG MANUFACTURERS' BROCHURES AND ARTICLES DATING BACK TO 1946. THE FILE WILL BE KEPT UP-TO-DATE BY THE PHARMACOLOGY DEPARTMENT OF GEORGE WASHINGTON UNIVERSITY. MEDIPHONE, AS A PRIVATE ENTERPRISE, WILL CHARGE SUBSCRIBERS 20 DOLLARS A YEAR AND 3 DOLLARS FOR EACH CALL. MOST OF THIS INCOME WILL HELP TO PAY THE SALARIES OF THE PART-TIME ANSWERING PANELISTS. CM

0435C *** 0435C
 DIAL F FOR FUTURE
 SCIENCE NEWS LETTER 88,9, P134, AUGUST 28, 1965
 // TELEPHONE-EQUIPMENT
 THIS NEWS ITEM OFFERS A SPECULATIVE REVIEW OF POPULAR USES OF PRESENT AND NEW TELEPHONE EQUIPMENT. PUSH BUTTON PHONES, PICTUREPHONES, LOUDSPEAKER ATTACHMENTS, AUTOMATIC DIALING, REMOTE ANSWERING DEVICES, MOBILE PHONES, ADVANCED ELECTRONIC SWITCHING, WRIST PHONES AND LASER BEAMS ARE SOME OF THE TECHNOLOGICAL ADVANCES WHICH MAKE NEW SERVICES POSSIBLE. SOME NEW SERVICES INCLUDE APPREVATED DIALING, DIAL CONFERENCES, VIABLE CALL TRANSFERS, CALL WAITINGS, INTERNATIONAL AND OTHER LONG DISTANCE CONFERENCES, DATA TRANSMISSION AND REMOTE CONTROL OPERATIONS. CM

0437C *** 0437C
 FACSIMILE BY PHONE OFFERED BY XEROX
 BUSINESS WEEK, P76, MAY 7, 1966
 // TELECOPIER MAGNAVOX-CO CCST
 THIS SHORT NEWS ITEM INTRODUCES A '...NON-XEROGRAPHIC MACHINE THAT SENDS AND RECEIVES FACSIMILES OVER ANY LONG-DISTANCE, VOICE QUALITY TELEPHONE LINE. DEVELOPED BY MAGNAVOX CO. AND CALLED A TELECOPIER, IT ALLOWS USERS TO DIAL ANYONE WITH A SIMILAR DEVICE AND TRANSMIT BY SIMPLY PLACING THE PHONE HANDSET ON THE MACHINE'S CRADLE.' THE TELECOPIER, TO BE MARKETED AND SERVICED BY THE XEROX CORPORATION, WILL BE LEASED FOR 35 DOLLARS A MONTH PLUS A METER CHARGE OF 2.5 CENTS PER MINUTE. CM

0442C *** 0442C
 INNOVATIONS BOLSTER IN-SERVICE PROGRAMS
 WISCONSIN JOURNAL OF EDUCATION 100,3, P18-9, NOV 1967
 // ANTIGO MERRILL ROTHSCHILD-SCHOFIELD WAUSAU STEVENS-POINT WISCONSIN-UNIV-STEVENS-POINT TEACHER-ED TEACHER-AID-ED INSERVICE-ED EVALUATION-QUESTIONNAIRE ELECTROWRITER TITLE-III
 UNDER THE DIRECTION OF E. J. SCHARFSCHMIDT, THE WISCONSIN STATE UNIVERSITY-STEVENS POINT IS THE HEADQUARTERS FOR A TELELECTURE PILOT PROGRAM AND A PARAPROFESSIONAL PILOT PROGRAM FOR CENTRAL WISCONSIN CITIES, INCLUDING ANTIGO, MERRILL, ROTHSCHILD-SCHOFIELD AND WAUSAU. MADE POSSIBLE THROUGH TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT, THESE TWO IN-SERVICE PROGRAMS ARE FINANCED BY FEDERAL FUNDS. THE TELELECTURE PROGRAM INVOLVES A SERIES OF INTERCONNECTED 'HOT LINES' THROUGH WHICH PERSONS IN VARIOUS LOCATIONS CAN CONVERSE. THE PROGRAM'S NAME WAS CHANGED FROM TELELECTURE TO TELEWRITER AFTER AN ELECTROWRITER WAS INCORPORATED INTO THE SYSTEM AS A VISUAL AID. LECTURES AND CONFERENCES TAKE PLACE ACCORDING TO A PRE-ARRANGED SCHEDULE. IN THE USUAL FORMAT, TEACHERS RECEIVE A LECTURE BY A STEVENS POINT PROFESSOR WHO DOES NOT HAVE TO BE CONCERNED ABOUT TRAVELING IN ORDER TO REACH HIS STUDENTS. GROUP SIZE RANGES 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 AID) PROGRAM IS ALSO BEING CONSIDERED BY THE SAME CITIES WHICH ARE INVOLVED WITH THE TELEWRITER PROGRAM. FK

0443C *** JCYNER, DOUGLAS 0443C
 NEW DEVELOPMENTS IN EDUCATIONAL TELECOMMUNICATIONS
 AUDIOVISUAL INSTRUCTION 11,6, P442, JUNE-JULY 1966
 // SAN-FRANCISCO SAN-DIEGO CALIFORNIA DAVI CMT LIBRARY-SCIENCE ELECTROWRITER DATA-PHONE
 A SPECIAL AUDIO-VISUALLY INTERCONNECTED CONFERENCE SESSION WAS HELD BETWEEN DAVI (DEPARTMENT OF AUDIOVISUAL INSTRUCTION) AND CMT (COUNCIL ON MEDICAL TELEVISION) DEALING WITH LIBRARY AND INFORMATION PROBLEMS. THE SYSTEM INCLUDED A UNIDIRECTIONAL ELECTROWRITER LINK FROM SAN DIEGO TO SAN FRANCISCO AND A TWO-WAY VOICE CONNECTION BETWEEN THE TWO CITIES. THE TWO GEOGRAPHICALLY SEPARATED GROUPS EXCHANGED IDEAS FOLLOWING LECTURES ILLUSTRATED BY MEANS OF THE ELECTROWRITER. ACCORDING TO THE AUTHOR, THIS DEMONSTRATION PROVED THAT 'WITH THE PROPER SURVEY, DESIGN, AND OPERATION, THE USE OF THE TELELECTURE/ELECTROWRITER MAY PROVE QUITE FEASIBLE IN EDUCATION.' CM

0444C *** KENDALL, LLOYD 0444C
 MEET THE SPOKESMAN
 AUDIOVISUAL INSTRUCTION 9,4, P226, APRIL 1964
 // SAN-DIEGO CALIFORNIA PRIMARY-ED COURSE-ENRICHMENT
 THE SPOKESMAN, A DEVICE WHICH AMPLIFIES A TELEPHONE CONVERSATION SO THAT A WHOLE CLASS CAN LISTEN TO IT, HAS GIVEN YOUNG STUDENTS MANY NEW EXPERIENCES IN FIRSTHAND EXCHANGE WITH EXPERTS IN NUMEROUS FIELDS. THE SPOKESMAN, WHICH IS BOTH LOW IN COST AND SIMPLE TO OPERATE, PROVIDES AN ALMOST UNLIMITED NUMBER OF OPPORTUNITIES FOR TWO-WAY EXCHANGE BETWEEN SCHOOL AND COMMUNITY. IT IS CURRENTLY BEING INSTALLED IN MANY SAN DIEGO SCHOOLS. FK

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0445C	<p>*** KRAY, EUGENE J.</p> <p>NEW TELEPHONE LEARNING TECHNIQUES</p> <p>BALANCE SHEET 46,4, P192, DEC 1964</p> <p>// NEWFOUNDLAND-CITY NEW-JERSEY WEST-MILFORD-TOWNSHIP-HIGH-SCHOOL SECONDARY-ED COURSE-ENRICHMENT NEW-JERSEY-BELL-TELEPHONE-CO</p> <p>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. FK</p>	0445C
0446A	<p>***</p> <p>LECTURES ON THE PHONE, TELELECTURES</p> <p>TIME, P37, JULY 19, 1963</p> <p>// MISSISSIPPI CLASSICS SATELLITE TELSTAR-II</p> <p>A BRIEF ACCOUNT OF HOW MCSES 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</p>	0446A
0447C	<p>*** LEWIS, PHILIP</p> <p>TELECOMMUNICATIONS, NEW PARTY-LINE FOR EDUCATION</p> <p>NATION'S SCHOOLS 78,3, P114, SEPT 1966</p> <p>// HISTORY-TELECONF COST ELECTROWRITER FACSIMILE SLOW-SCAN-TV</p> <p>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</p>	0447C
0448	<p>*** MADDEN, CHARLES F.</p> <p>GIVE A RING, GET A LECTURE. TELEPHONES IN THE SOUTHERN STATES</p> <p>TIMES (LONDON EDUCATIONAL SUPPLEMENT), P2557-79, OCT 9, 1964</p>	0448
0449C	<p>*** MCDIVITT, HELEN</p> <p>TEACHING BY CLOSED-CIRCUIT TELEPHONE IN NINE CENTRAL SCHOOLS</p> <p>CLEARING HOUSE 38,7, P446-8, MARCH 1964</p> <p>// 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 ELECTROWRITER COLUMBIA-UNIV NEW-YORK-TELEPHONE-CO</p> <p>MCDIVITT OUTLINES THE VARIOUS WAYS IN WHICH THE TELEPHONE HAS BEEN USED BY NINE SCHOOLS IN EASTERN NEW YORK STATE. EACH SCHOOL IS FROM TWO TO 34 MILES AWAY FROM SOUTH KORTRIGHT, WHERE A CENTRAL SWITCHBOARD CONNECTS EACH BY CLOSED CIRCUIT TELEPHONE TO THE OTHERS AND TO THE OUTSIDE WORLD. THE EXPERIMENT WAS BEGUN IN 1962 TO SUPPLEMENT REGULAR INSTRUCTION BY ALLOWING SCHOOLS TO ESTABLISH CONTACTS WITH OUTSIDE SPEAKERS. THE SUCCESS OF THIS PROGRAM LED TO THE USE OF THE SYSTEM FOR INSERVICE TEACHER TRAINING. INSTRUCTION IN MODERN MATH IS TO BE PROVIDED BY PHONE, IN CONNECTION WITH FILMS, TAPE-RECORDED LESSONS AND TELEPHONIC WRITING EQUIPMENT. THE TELEPHONE LINES HAVE ALSO BEEN USED FOR INTERNATIONAL EXCHANGE, LANGUAGE INSTRUCTION, TEACHER SHARING, ADMINISTRATIVE DISCUSSION BETWEEN SCHOOLS, EXTRA-CURRICULAR ACTIVITIES AND SPEECH THERAPY. INDEED, THE POSSIBILITIES SEEM TO MULTIPLY. 'ONE INTEREST LEADS INTO ANOTHER OR INTO THREE OR FOUR OTHERS.' CONVERSATION HAS DISTINCT ADVANTAGES OVER OTHER FORMS OF INFORMATION PRESENTATION. 'THE MOST IMPORTANT BENEFIT CAME FROM THE DIRECT TWO-WAY CONTACT BETWEEN SPEAKER AND STUDENTS.' WH</p>	0449C
0450	<p>*** MEYERS, E.A. (AND OTHERS)</p> <p>BLACKBOARD-BY-WIRE AND GRADUATE INSTRUCTION IN CHEMISTRY</p> <p>JOURNAL OF CHEMICAL EDUCATION 44, P452-3, AUGUST 1967</p>	0450
0451	<p>*** MONDELBAU, J.D.</p> <p>SIX EXPERIMENTAL TELELECTURES</p> <p>EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45,5, P32-3, MAY 1966</p>	0451
0452C	<p>*** MOORE, J. MICHAEL</p> <p>TELECOMMUNICATIONS IN FL INSTRUCTION</p> <p>AUDIOVISUAL INSTRUCTION 10,8, P656, OCT 1965</p> <p>// SAN-DIEGO CALIFORNIA WEST-GERMANY INTERNATIONAL-TELECONF SECONDARY-ED COURSE-ENRICHMENT GERMAN-LANGUAGE VISUAL-AIDS</p> <p>A HIGHLIGHT OF THE AMERICAN PUBLIC SCHOOLS WEEK HELD IN SAN DIEGO IN APRIL 1964 WAS A TRANSATLANTIC TELEPHONE INTERVIEW OF WEST GERMAN VICE-PRESIDENT ERICH MENDE BY STUDENTS ENROLLED IN GERMAN CLASSES OF THE SAN DIEGO UNIFIED SCHOOL DISTRICT. VISUAL AIDS WERE EMPLOYED DURING THE INTERVIEW, WHICH WAS BROADCAST OVER A GERMAN RADIO NETWORK ALSO. GROUNDWORK FOR THE EXPERIMENT WAS LAID BY THE AUTHOR IN GERMANY IN 1964. FK</p>	0452C

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0453 *** MORTON, BERRY E. * BURNS, RICHARD L. 0453
 TELELECTURE IN INDUSTRIAL EDUCATION
 INDUSTRIAL ARTS AND VOCATIONAL EDUCATION 55,6, P40, JULY 1966

0458C *** PAUL, ALDRICH K. 0458C
 NEW CONCEPT IN SHARING SPEECH PROFESSORS
 SPEECH TEACHER 13/14, P27-9, JAN 1965
 // NEBRASKA-OMAHA-UNIV OHIO-CINCINNATI-UNIV HISTORY-TELECONF HUMAN-FACTORS COST
 NORTHWESTERN-BELL-TELEPHONE-CO
 DR. PAUL DESCRIBES THE USE OF THE TELELECTURE TECHNIQUE BY THE SPEECH DEPARTMENT AT THE UNIVERSITY
 OF CINCINNATI, AFTER GIVING A BRIEF HISTORY OF CONFERENCE TYPE TELEPHONE INTERCONNECTIONS. HE
 CITES INNOVATIVE USES OF THE TELEPHONE FROM 1899 TO 1960, WHEN MICHEL BEILIS TRIED THE
 TELELECTURE TECHNIQUE WITH LARGE AUDIENCES. THE SPEECH DEPARTMENT AT CINCINNATI HAS USED THE
 TECHNIQUE SINCE 1962 TO RECEIVE LECTURES FROM EXPERTS AND TO PROVIDE OPEN DISCUSSION WITH THEM.
 THE TWO-WAY TELEPHONE CONFERENCE HOOKUP IS SUPPLEMENTED BY VISUAL AIDS WHICH ARE MAILED PRIOR
 TO THE LECTURE. THE COST OF A TELELECTURE IS FROM ONE-FIFTH TO ONE-TENTH OF THE COST OF
 BRINGING A PROMINENT SPEAKER TO THE CLASSROOM. THE AUTHOR MENTIONS SOME DIFFICULTIES INHERENT
 IN THE TECHNIQUE AND SOME SOLUTIONS HIS GROUPS AND SPEAKERS HAVE ACHIEVED. IN ADDITION TO THE
 ADVANTAGES OF LOW COST, GREATER AVAILABILITY OF SPEAKERS, FLEXIBILITY IN PROGRAM PLANNING AND
 IN SPEAKER LOCATION, AND EASE IN TECHNICAL PREPARATION, THE AUTHOR FEELS THAT THE CIRCULAR
 COMMUNICATION PROCESS OF TELECONFERENCING IS SUPERIOR TO THE ONE-WAY LECTURE. CM

0461C *** 0461C
 PICTUREPHONE
 SCIENTIFIC AMERICAN 211,1, P48, JULY 1964
 // NEW-YORK-CITY CHICAGO WASHINGTON-DC COST SPECTRUM-USE AT-T
 AT+T IS INSTALLING A COMMERCIAL PICTUREPHONE SERVICE BETWEEN NEW YORK, CHICAGO AND WASHINGTON IN
 JUNE, 1964 TO TEST PUBLIC INTEREST AND REACTION. THIS IS '...THE FIRST DIALABLE VISUAL
 TELEPHONE SYSTEM WITH AN ACCEPTABLE PICTURE THAT HAS BEEN BROUGHT WITHIN THE RANGE OF ECONOMIC
 FEASIBILITY.' COST FOR A 3-MINUTE CALL BETWEEN WASHINGTON AND CHICAGO IS 21 DOLLARS. A
 PICTUREPHONE TRANSMISSION REQUIRES 125 TIMES AS MUCH OF A BANDWIDTH AS A
 VOICE-ONLY-TRANSMISSION DOES. CM

0462C *** 0462C
 PICTUREPHONE DEVELOPED FOR COMMERCIAL USE
 SCIENCE NEWS LETTER 86,5, P73, AUGUST 1, 1964
 // NEW-YORK-CITY WASHINGTON-DC CHICAGO BELL-LABS
 COMMERCIAL PICTUREPHONE SETS ARE AVAILABLE FOR USE BY APPOINTMENT IN NEW YORK, CHICAGO AND
 WASHINGTON. PUBLIC REACTION TO THE SETS MUST BE MEASURED BEFORE THE SETS BECOME WIDELY
 AVAILABLE. DEVELOPMENT WORK BY BELL LABS CONTINUES ON THE FEASIBILITY OF CONFERENCE
 PICTUREPHONE USAGE AND ON MAKING PRINTED MATERIALS EASIER TO SEE AND READ OVER THE VIDEO
 CIRCUIT. CM

0463 *** QUINN, D. 0463
 SIX WORKSHOPS RECEIVE KEY PRESENTATIONS VIA TELELECTURE
 EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 45,5, P29+, MAY 1966

0464C *** ROMENESKO, MERLIN A. 0464C
 HELLO GREAT AMERICAN
 WISCONSIN JOURNAL OF EDUCATION 98,1, P8, SEPT 1965
 // WALNORTH WISCONSIN BIG-FOOT-HIGH-SCHOOL SECONDARY-ED COURSE-ENRICHMENT VISUAL-AIDS
 MAILED-MATERIALS
 BIG FOOT HIGH SCHOOL IN WALNORTH, WISCONSIN USED AMPLIFIED TELEPHONES TO RECEIVE A LECTURE FROM
 PEARL S. HUCK. STUDENTS TOOK AN ACTIVE PART IN CHOOSING THIS SPEAKER AND IN PREPARING
 QUESTIONS FOR HER TO ANSWER. THE QUESTIONS WERE MAILED IN ADVANCE TO EXPEDITE THE
 CONVERSATION, AND VISUAL AIDS WERE REQUESTED OF THE LECTURER IN RETURN MAIL. THE GENERAL
 TELEPHONE COMPANY OFFERED THREE SPEAKERS AND A PORTABLE MICROPHONE WITHOUT CHARGE. CM

0466C *** SNELLMAN, ADALINE * SEMENIUK, ALEXANDRA * STOFLET, DOROTHY 0466C
 TELELECTURE BRINGS FAMOUS DESIGNER TO TEXTILE AND CLOTHING STUDENTS
 JOURNAL OF HOME ECONOMICS 58,1, P48-9, JAN 1966
 // SOUTH-DAKOTA-STATE-UNIV HIGHER-ED COURSE-ENRICHMENT HOME-ECONOMICS PRE-PLANNING
 VISUAL-AIDS MAILED-MATERIALS TAPE-RECORD
 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 BIOGRAPHY OF THE DESIGNER, MADE
 DISPLAYS AND RELEASED PUBLICITY ITEMS THROUGH LOCAL NEWS MEDIA. THE DESIGNER INQUIRED OF THE
 STUDENTS' SPECIAL INTERESTS AND SENT VISUAL AIDS BY MAIL TO BE SYNCHRONIZED WITH HER LECTURE.
 THIS TELELECTURE WAS THE FIRST IN THE DAKOTAS AND SURROUNDING STATES AND GENERATED MUCH
 COMMUNITY INTEREST AND COOPERATION FROM THE LOCAL TELEPHONE COMPANY. THE COST WAS ONLY 21.50
 DOLLARS. THE PRESENTATION WAS TAPED AND WILL BE USED FOR FUTURE FRESHMAN CLASSES. THE AUTHORS
 ADVISE OF THE IMPORTANCE OF PRETESTING THE EQUIPMENT AND OF PREPLANNING THE PROGRAM SO THAT
 RAPPORT CAN BE ESTABLISHED READILY. CM

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- 0467C ***
SPREADING THE WORD ON THE NEW MATH
BUSINESS WEEK, P110-2, APRIL 10, 1965
// NORTHWEST-IOWA-TELEWRITER-PROJECT IOWA TEACHER-ED INSERVICE-ED ADULT-ED MATHEMATICS
PROGRAMED-TEXTS VISUAL-AIDS ELECTROWRITER VFRB COST FORD-FOUNDATION
THE NORTHWEST IOWA TELEWRITER PROJECT MADE USE OF TELEPHONE LINES AND THE VICTOR ELECTROWRITER TO
TEACH THE NEW MATH TO SOME 2,250 PARENTS AND ELEMENTARY SCHOOL TEACHERS. LECTURES GIVEN BY
INSTRUCTORS IN CHICAGO, URBANA, ILLINOIS, AND CEDAR FALLS, IOWA WERE RELAYED TO SEVEN SCHOOL
HALLS IN NORTHWEST IOWA, UP TO 500 MILES AWAY FROM THE SOURCE. SLIDES OF THE LECTURER WERE
USED 'TO KEEP INTEREST HIGH.' MICROPHONES ALLOWED THE STUDENTS TO ASK QUESTIONS AND THE
ELECTROWRITER FLASHED THE TEACHERS' DIAGRAMS ONTO EIGHT-FOOT SCREENS AT EACH LOCATION. SPECIAL
INSTRUCTIONAL PAMPHLETS WERE DESIGNED AND PURCHASED FROM ENCYCLOPEDIA 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 INVOLVE PARENTS MORE FULLY IN THE
EDUCATION OF THEIR CHILDREN AND IT HAS PROVIDED TEACHERS WITH NECESSARY INSERVICE TRAINING.
UNLIKE TELEVISION, THIS METHOD OF MASS INSTRUCTION PERMITS AUDIENCE RESPONSE AND SO ALLOWS THE
INSTRUCTOR TO ADAPT HIS PRESENTATION CONTINUALLY TO HIS AUDIENCE. FURTHERMORE, THE EXPENSE IS
ESTIMATED TO BE '...ONE-THIRTIETH THAT OF CLOSED-CIRCUIT TELEVISION BROADCASTS OF A SIMILAR
NATURE.' WH
- 0468C *** TANGUAY, EDWARD J.
LAKEWOOD, TELEPHONES HELP STUDENTS STUDY FRENCH AND SPANISH
NATION'S SCHOOLS 78,4, P90, OCT 1966
// LAKEWOOD COLORADO SECONDARY-ED DIAL-ACCESS PROGRAMED-INSTRUCTION INDIVIDUAL-INSTRUCTION
EVALUATION-QUESTIONNAIRE
FRENCH AND SPANISH LANGUAGE STUDENTS IN HIGH SCHOOLS IN LAKEWOOD, COLORADO PARTICIPATED IN A
SUPPLEMENTARY INDIVIDUAL INSTRUCTION PROGRAM. TAPE-RECORDED LESSON DRILLS WERE MADE AVAILABLE
TO THE 325 LANGUAGE STUDENTS VIA A TELEPHONE DIAL ACCESS SYSTEM. THE PROJECT WAS EVALUATED BY
QUESTIONNAIRES ANSWERED BY THE STUDENTS AFTER 3 MONTHS. SEVENTY-TWO PER CENT FELT THAT THE
DRILL LESSONS WERE HELPFUL. SIXTY-THREE PER CENT THOUGHT THAT EVEN NEW LANGUAGE LESSONS COULD
BE LEARNED BY THE TELEPHONE DIAL ACCESS TECHNIQUE. STUDENTS INDICATED THAT THEY WOULD LIKE TO
USE THE DIAL ACCESS TAPES DURING THE ENTIRE YEAR. ALTHOUGH THE EXPERIMENT WAS SMALL AND
INFORMAL, THE AUTHOR FEELS THAT IT DID POINT THE WAY TO FUTURE PILOT STUDIES USING THE
TELEPHONE AS A TEACHING TOOL. CM
- 0470C ***
TELEPHONE TEACHERS
TIMES (LONDON EDUCATIONAL SUPPLEMENT) 2609, P1570, MAY 21, 1965
// HOMEBOUND-CHILDREN OMAHA-UNIV VISUAL-AIDS COST AT-T
TWO EDUCATIONAL APPLICATIONS OF THE TELEPHONE IN THE UNITED STATES ARE REPORTED IN THIS NEWS
ARTICLE. THE FIRST USE IS AN AMPLIFIED TELEPHONE SYSTEM BY MEANS OF WHICH HOMEBOUND STUDENTS
CAN HEAR ALL THAT OCCURS IN THE CLASSROOM AND CAN PARTICIPATE IN THE LESSONS. FOURTH GRADERS
THROUGH COLLEGE STUDENTS CAN USE THIS SYSTEM. COST FOR THE EQUIPMENT AND OPERATION IS USUALLY
ABSORBED BY THE EDUCATION AUTHORITIES OR LOCAL ORGANIZATIONS. THE SECOND DEVELOPMENT IN THE
USE OF THE TELEPHONE IN EDUCATION IS THE TELELECTURE. A RECENT LECTURE SERIES AT OMAHA
UNIVERSITY INCLUDED TELELECTURES BY TWO FAMOUS ELIZABETHAN SCHOLARS - ONE LECTURER AT CORNELL
UNIVERSITY AND THE OTHER IN LONDON. THESE LECTURES WERE SUPPLEMENTED BY VISUAL-AIDS AND
STUDENTS ASKED QUESTIONS THROUGH THEIR CHAIRMAN. THE ARTICLE REPORTS THAT TWO-WAY TELEPHONE
COMMUNICATION PROVIDED AN ENHANCED FEELING OF UNITY BETWEEN LECTURER AND CLASS. 'ONE STATE
UNIVERSITY LECTURER REVEALED THAT HE FELT AN EVER GREATER URGE TO COMMUNICATE THAN WHEN HE
COULD SEE HIS AUDIENCE.' THE SAVINGS IN COST, TRAVEL AND TIME ARE NOTED. CM
- 0474C *** WILSON, FRED
PICTUREPHONE AS A PHOTO TOOL
POPULAR PHOTOGRAPHY 57,4, P36, OCT 1965
// NEW-YORK-CITY CHICAGO
THE EDITOR OF THE MAGAZINE, POPULAR PHOTOGRAPHY, MADE USE OF THE PICTUREPHONE LINK BETWEEN NEW YORK
AND CHICAGO TO ASK A PROFESSIONAL PHOTOGRAPHER TO SHOW HIM A PORTFOLIO OF THE PHOTOGRAPHER'S
PRINTS OVER THE LINE. A TIME WAS ARRANGED AND SOME THIRTY PRINTS WERE HELD UP TO THE CAMERA IN
CHICAGO. THE EDITOR CHOSE A PICTURE FOR INCLUSION IN THE 1966 EDITION OF PHOTOGRAPHY ANNUAL.
THOUGH THE PICTUREPHONE IMAGE IS ONLY FOUR AND THREE-EIGHTHS BY FIVE AND THREE-FOURTHS INCHES,
THE RESOLUTION IS GOOD. EXCEPT FOR FOCUSING, IT OPERATES AUTOMATICALLY - ADJUSTING CONTRAST
AND ADAPTING TO ILLUMINATION RANGING FROM 5 TO 100 FOOT CANDLES. IT INCLUDES AUTOMATIC
SYNCHRONIZATION '...TO ELIMINATE THE NEED FOR HORIZONTAL OR VERTICAL CONTROLS.' WH
- 0476C ***
MAKING CURRENT-EVENTS REAL FOR STUDENTS
SCHOOL MANAGEMENT 10,9, P11, SEPT 1966
// OSWEGO NEW-YORK SECONDARY-ED COURSE-ENRICHMENT TAPE-RECORD COST
THIS NEWS ITEM NOTES HOW HIGH SCHOOLS IN OSWEGO, NEW YORK HAVE UTILIZED TELELECTURES TO BRING MANY
FAMOUS AND IMPORTANT FIGURES INTO THE CLASSROOM. REGULAR LONG DISTANCE TELEPHONE CALLS ARE
HEARD OVER THE SCHOOL LOUUSPEAKER SYSTEM. COSTS INCLUDED APPROXIMATELY 100 DOLLARS FOR LINE
CHARGES AND 200 DOLLARS FOR SPEAKERS' FEES. SESSIONS ARE TAPE RECORDED FOR FUTURE USE. FK

RECID INDEX

0477C *** KLEMMER, EDMUND T. 0477C
HUMAN FACTOR PROBLEMS IN SATELLITE TELEPHONING
HUMAN FACTORS B, P475-80, DEC 1966
// DELAY ECHO BELL-LABS
TELEPHONE CALLS ROUTED VIA SATELLITE INVOLVE LONG TRANSMISSION PATHS WHICH IN TURN REQUIRE SIGNIFICANT TRANSMISSION TIMES EVEN AT THE SPEED OF LIGHT. THIS TRANSMISSION TIME PRODUCES A DELAY IN SPEECH TRANSMISSION OF ABOUT 0.3 SECONDS IN EACH DIRECTION FOR A SYNCHRONOUS SATELLITE. ALTHOUGH THE DELAY ITSELF IS NOT USUALLY NOTICED BY THE TALKERS, IT SIGNIFICANTLY INCREASES THE DISTURBING EFFECTS OF ECHO AND MUTILATION OF SPEECH BY THE ECHO SUPPRESSORS SO THAT THE OVERALL QUALITY OF THE CIRCUIT, AS JUDGED BY THE USERS, SUFFERS. CHARTS AND GRAPHS ACCOMPANY THIS ARTICLE TO ILLUSTRATE THE CORRELATIONS BETWEEN DELAY AND DIFFICULTY OF HEARING AND TALKING IN FIELD AND LABORATORY SIMULATIONS AS WELL AS ACTUAL CIRCUIT TESTS. AUTHOR'S ABSTRACT WITH NOTE BY CM.

0478C *** BAVELAS, ALEX 0478C
TELECONFERENCING, BACKGROUND INFORMATION
INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-106. IDA/HQ 64-2310, NOV 1963

0479C *** BAVELAS, ALEX 0479C
TELECONFERENCING, GUIDELINES FOR RESEARCH
INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-107. IDA/HQ 64-2312, NOV 1963

0480C *** GLENN, EDMUND S. 0480C
TELECONFERENCING, LANGUAGE AND CULTURAL FACTORS
INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-109. IDA/HQ 64-2314, NOV 1963
// INTERNATIONAL-TELECONF INTERPRETATION TRANSLATION CROSS-CULTURAL-TELECONF
THIS PAPER DISCUSSES TYPES OF LANGUAGE TRANSPOSITION SERVICES AND THEIR APPLICABILITY TO INTERNATIONAL TELECONFERENCING. THE AUTHOR NOTES THE DIFFERENCE BETWEEN SPONTANEOUS TRANSPOSITION OF ORAL MATERIAL, (I.E., INTERPRETATION) AND METICULOUS TRANSPOSITION OF WRITTEN MATERIAL (I.E., TRANSLATION). ALTHOUGH THIS DISTINCTION SOMETIMES BECOMES BLURRED IN A TELECONFERENCING SITUATION, FOUR BASIC TYPES OF TELECONFERENCING TRANSPOSITION ARE DISCERNABLE 1) THE FULL TRANSLATION METHOD 2) THE SIMULTANEOUS SIGHT METHOD, IN WHICH TRANSLATION OCCURS AT THE SAME TIME A MESSAGE IS BEING PRINTED ON A TELETYPE 3) THE SIMULTANEOUS INTERPRETATION METHOD AND 4) THE CONSECUTIVE INTERPRETATION METHOD, IN WHICH INTERPRETATION OCCURS AFTER A PARTICIPANT FINISHES SPEAKING. IN SELECTING A METHOD OF TRANSPOSITION, THE COMPATIBILITY OF TECHNIQUES AND EQUIPMENT MUST BE KEPT IN MIND. CURRENTLY, THE CONSECUTIVE INTERPRETATION SYSTEM IS USED IN HIGH LEVEL DIPLOMATIC TALKS, WHILE THE SIMULTANEOUS INTERPRETATION METHOD IS COMMON TO LARGE SCALE INTERNATIONAL CONFERENCES. IN TELECONFERENCES, SEVERAL TRANSPOSITION POSSIBILITIES EXIST, INCLUDING 1) A ONE LANGUAGE NETWORK 2) A MULTI-LANGUAGE SIMULTANEOUS NETWORK 3) A NETWORK IN WHICH EACH TERMINAL TRANSMITS ITS OWN LANGUAGE 4) A MULTI-LANGUAGE CONSECUTIVE NETWORK 5) THE BERLIN SYSTEM, IN WHICH MANY CONSECUTIVE INTERPRETATIONS ARE DONE SIMULTANEOUSLY AND 6) THE DUPLEX NETWORK, IN WHICH THE ORIGINAL IS TRANSMITTED IN ONE DIRECTION AND AN INTERPRETATION IN ANOTHER. SINCE LANGUAGE SERVICES EFFECT TELECONFERENCES TO SOME EXTENT, IMMEDIATE ATTENTION IN THE FORM OF RESEARCH SHOULD BE GIVEN TO THE EFFICIENCY PROBLEMS OF "...TRANSLATION AND INTERPRETATION IN THEIR SEVERAL COMBINATIONS AS REQUIRED BY VARIOUS MEDIA OF COMMUNICATION." FK

0481C *** SCHWARTZ, JAY W. 0481C
TELECONFERENCING, CAPACITY OF CURRENT COMMUNICATION FACILITIES
INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-110. IDA/HQ 64-2315, NOV 1963
// INTERNATIONAL-TELECONF NATO COST TECHNICAL-CONSIDERATIONS
THIS PAPER CONSISTS OF A GENERAL DISCUSSION OF THE TECHNICAL REQUIREMENTS FOR INTERNATIONAL TELECONFERENCING NETWORKS AND A CURSORY ASSESSMENT OF AVAILABLE TELECONFERENCING FACILITIES IN NATO CAPITALS. IN THE PAPER, TELECONFERENCING REQUIREMENTS ARE BROKEN DOWN INTO THREE FACTORS WHICH CAN AFFECT A TELECONFERENCE IN MANY WAYS. THESE THREE ARE BANDWIDTH, TRANSMISSION QUALITY AND SECURITY MEASURES. THE AUTHOR ASSESSES THE BANDWIDTH AND SECURITY FACILITIES WHICH EXIST BETWEEN NATO CAPITALS, NOTING THE DESIRABILITY OF ENCRYPTION VIA TELETYPE. THE AUTHOR, HOWEVER, DOES NOT ASSESS QUALITY, A VERY SUBJECTIVE CHARACTERISTIC, BUT RATHER MAKES SEVERAL OBSERVATIONS ON THE SUBJECT. THE PAPER CONCLUDES WITH A DISCUSSION OF COSTS, WHICH MAY BE SIGNIFICANTLY REDUCED IF U.S. AND NATO MILITARY CHANNELS ARE UTILIZED. FK

0482C *** BELLEN, THOMAS G. 0482C
TELECONFERENCING, PROCEDURES
INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-111. IDA/HQ 64-2316, NOV 1963
// INTERNATIONAL-TELECONF DEFINITION-TELECONF NETWORKS PROTOCOL LANGUAGE PRESENTATION-SKILLS CHAIRMANSHIP-ROLE
IN AN ATTEMPT TO SUGGEST A METHOD FOR ANALYZING TELECONFERENCE PROCEDURES, THE AUTHOR DESCRIBES THE PHYSICAL CHARACTERISTICS OF VARIOUS TYPES OF TELECONFERENCING NETWORKS AND EXAMINES THE PROCEDURAL PROBLEMS INHERENT IN THEM. THE PAPER BEGINS BY DEFINING TERMS AND EXPLAINING THE GRAPHIC SYMBOLS USED BY THE AUTHOR TO REPRESENT THE MEDIA, TERMINALS AND MODES OF TRANSMISSION USED IN VARIOUS NETWORKS. DESCRIPTIONS AND PROCEDURAL ANALYSES ARE GIVEN FOR THREE GENERAL TYPES OF NETWORKS 1) COMMON CIRCUIT SIMPLEX NETWORKS (I.E., DELTA NETS) 2) CENTRAL CONTROL NETWORKS (I.E., Y NETS) AND 3) COMBINATION NETWORKS. PROCEDURAL ISSUES ARE BROKEN DOWN INTO THOSE INVOLVING PROTOCOL AND THOSE INVOLVING OPERATIONAL PROCEDURES. ISSUES OF PROTOCOL WHICH ARE EXAMINED INCLUDE 1) THE PROBLEM OF LANGUAGE AND INTERPRETATION, WHICH OFTEN CAUSES LONG DELAYS DURING TELECONFERENCES 2) THE EXTENT OF THE POWER TO BE WIELDED BY THE TELECONFERENCE'S CHAIRMAN 3) SIDE CONVERSATIONS AND 4) MEDIA COMBINATIONS. IN CONCLUSION, THE AUTHOR MAKES SEVERAL OBSERVATIONS AND SUGGESTIONS REGARDING TELECONFERENCE PROCEDURES, NOTING THAT WELL THOUGHT-OUT PROCEDURES ARE ESSENTIAL TO THE SUCCESS OF A TELECONFERENCE. FK

RECID INDEX

0483C	<p>*** HUMAN SCIENCES RESEARCH, INC.</p> <p>TELECONFERENCING, LITERATURE REVIEW, FIELD STUDIES, AND WORKING PAPERS</p> <p>INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-113. IDA/HQ 64-4698, OCT 1963. (REVISED MARCH 1966)</p>	0483C
0484A	<p>*** SINAJKO, H. WALLACE</p> <p>TELECONFERENCING, PRELIMINARY EXPERIMENTS</p> <p>INSTITUTE FOR DEFENSE ANALYSIS. RESEARCH AND ENGINEERING. RESEARCH PAPER P-108. IDA/HQ 64-2313. NOV 1963</p>	0484A
0489C	<p>*** BERGEN, STANLEY S., JR.</p> <p>USE OF TWO-WAY RADIO BY VOLUNTARY HEALTH ORGANIZATION FOR CONTINUING MEDICAL EDUCATION</p> <p>NEW YORK JOURNAL OF MEDICINE 66, P2694-7, OCT 15, 1966</p>	0489C
0501C	<p>*** SMART, CHARLES R. * STERNBERG, THOMAS H. * CLINCO, ARTHUR A.</p> <p>INITIAL EXPERIENCE WITH ENCODED TWO-WAY MEDICAL TELEVISION</p> <p>JOURNAL OF MEDICAL EDUCATION 41, P977-81, OCT 1966</p> <p>// LOS-ANGELES CALIFORNIA UCLA POSTGRADUATE-ED MEDICAL-ED INSERVICE-ED MODERATOR EVALUATION-QUESTIONNAIRE KCET VIDEOTAPE-RECORD COST</p> <p>THE SCHOOL OF MEDICINE OF THE UNIVERSITY OF CALIFORNIA AT LOS ANGELES BEGAN USING OPEN CIRCUIT TELEVISION AS A TEACHING MEDIUM IN POSTGRADUATE MEDICAL EDUCATION IN OCTOBER 1954. ATTENDANCE, MEASURED BY A TELEPHONE SURVEY, WAS GOOD AND PHYSICIAN RESPONSE WAS FAVORABLE. IN 1964, THE MEDICAL SCHOOL VETOED THE USE OF OPEN CIRCUIT TELEVISION IN FAVOR OF CLOSED CIRCUIT OR ENCODED TELEVISION TO ENSURE PRIVACY AND AVOID LAY CRITICISM OF THE PARTICIPANTS. THE NEW COMMUNICATIONS SYSTEM UTILIZED ENCODED TELEVISION COMBINED WITH A TELEPHONE LINK FOR QUESTION AND ANSWER PERIODS. MODERATORS WERE ASSIGNED AT EACH RECEIVING HOSPITAL TO KEEP ATTENDANCE RECORDS, STIMULATE QUESTIONS AND EVALUATE THE PROGRAMS. FURTHER EVALUATION WAS SOUGHT BY MEANS OF QUESTIONNAIRES. ENCODED TELEVISION FOR POSTGRADUATE MEDICAL EDUCATION ENCOMPASSES MOST OF THE ADVANTAGES OF CLOSED-CIRCUIT TELEVISION (PRIVACY OF MEDICAL COMMUNICATION PLUS AN AUDIENCE WHICH CAN BE MEASURED, EVALUATED AND CONTROLLED), AS WELL AS THE CHEAP, POTENTIALLY WIDE COVERAGE OF OPEN CIRCUIT TELEVISION. BY MAKING THE COMMUNITY HOSPITAL THE RECEPTION CENTER FOR THESE PROGRAMS AND BY PROVIDING FOR LIVE FEEDBACK FROM THE AUDIENCE, THE COMMUNITY HOSPITALS BECAME A BRANCH OF THE 'UNIVERSITY WITHOUT WALLS' IN THE LIFELONG EDUCATION OF PHYSICIANS. 'BY MEANS OF THE NEWLY DEVELOPED, CHEAP HOME VIDEOTAPE RECORDERS, IT IS NOW POSSIBLE FOR THE HOSPITAL STAFF TO RECORD THESE TELEVISION PROGRAMS WHEN BROADCAST AND THEN REPLAY THEM AT WHATEVER HOUR AND AS MANY TIMES AS THEY DESIRE. IT ALSO ALLOWS THE NETWORK TO DUPLICATE THE PROGRAMS AND MAIL THEM TO HOSPITALS OUTSIDE THE RANGE OF THE PRESENT BROADCAST SYSTEM. THIS MEANS THAT THE PRACTITIONER MAY SEE AN EXCELLENT, UP-TO-DATE PROGRAM AT ANY TIME AND ALMOST ANY PLACE.' CM</p>	0501C
0512C	<p>*** TAMPAS, JOHN P. * SOULE, A. BRADLEY</p> <p>EXPERIENCES WITH TWO-WAY TELEVISION IN A TEACHING HOSPITAL COMPLEX</p> <p>JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 204,13, P1173-5, JUNE 24, 1968</p> <p>// VERMONT-UNIV KANSAS-UNIV REMOTE-PATIENT-MONITORING X-RAY EEG EKG-VIA-SATELLITE FLUOROSCOPIC-TRANSMISSION SATELLITE COAXIAL-CABLE COST</p> <p>'TELEVISION HAS BEEN DEVELOPED AND USED EXTENSIVELY AT THE UNIVERSITY OF VERMONT COLLEGE OF MEDICINE FOR CONSULTATION, PATIENT CARE, TEACHING, AND RESEARCH. PRESENT USES INCLUDE TELEVISION MONITORING OF FLUOROSCOPIC EXAMINATIONS, RADIOGRAPHS, ELECTROCARDIOGRAMS, MICROSCOPIC IMAGES, TEACHING CONFERENCES, OPERATIVE PROCEDURES, AND PATIENTS UNDERGOING RADIATION THERAPY. PROJECTED PLANS INCLUDE THE DEVELOPMENT OF A TWO-WAY AUDIOVISUAL TRANSMISSION BETWEEN THE MEDICAL CENTER AND PERIPHERAL COMMUNITY HOSPITALS FOR TEACHING AND CONSULTATION PURPOSES.' THE ARTICLE DISCUSSES THE HISTORY, TECHNICAL FACTORS, EARLY TYPES, CURRENT APPLICATIONS, PROJECTED USES, AND THE LIMITING FACTORS OF THESE COMMUNICATIONS APPLICATION. CM</p>	0512C
0542C	<p>*** FRECHETTE, ALBERT P.</p> <p>TWO-WAY RADIO CONFERENCES, THE ALBANY MEDICAL COLLEGE PROJECT</p> <p>AUDIOVISUAL INSTRUCTION 8, P738-40, DEC 1963</p>	0542C
0544C	<p>*** COOK, THOMAS G.</p> <p>TEL-LECTURE</p> <p>ADULT LEADERSHIP 12, P11-2, MAY 1963</p> <p>// WISCONSIN-UNIV LACROSSE-STATE-COLLEGE EXTENSION-UW HIGHER-ED CURRICULUM-ENRICHMENT PRESENTATION-SKILLS VISUAL-AIDS PRE-PLANNING PUBLICITY COST EVALUATION-QUESTIONNAIRE LACROSSE-TELEPHONE-CC</p> <p>AN EXPERIMENT TO EXAMINE THE POTENTIAL EFFECTIVENESS OF TELELECTURES WAS CONDUCTED AT LACROSSE STATE COLLEGE, IN WISCONSIN, ON MAY 3, 1962. ONE HUNDRED PEOPLE, MAINLY UNDERGRADUATES IN PHYSICAL SCIENCE, ATTENDED A TELELECTURE ON THE NUCLEAR REACTOR GIVEN BY DR. MAX CARBON, LOCATED AT THE UNIVERSITY OF WISCONSIN MADISON CAMPUS. TWO PROJECTORS AND TWO SCREENS WERE USED AT THE RECEIVING SITE, IN CONJUNCTION WITH THOSE IN THE LECTURER'S OFFICE, SO THAT IMPORTANT VISUALS COULD REMAIN IN VIEW WHILE SECONDARY SLIDES WERE CHANGED. THE EXPERIMENT DEMONSTRATED THE NECESSITY FOR DETAILED PLANNING AND THE IMPORTANCE OF INTEGRATING VISUALS INTO THE LECTURE IN ORDER TO FOCUS AUDIENCE ATTENTION. FURTHERMORE, PARTICIPATION IN THE QUESTION-ANSWER SESSION PROVED VALUABLE IN THE ATTEMPT TO INVOLVE THE AUDIENCE IN SOME MEANINGFUL WAY... ALL THESE WHO COMPLETED EVALUATION CARDS THOUGHT THE TELELECTURE AN EFFECTIVE EDUCATIONAL METHOD AND 66 PER CENT OF THE RESPONDENTS FELT THE TEL-LECTURE WAS 'AS EFFECTIVE' AS A LECTURE 'IN PERSON'. THE AUTHOR FEELS THAT THIS TECHNIQUE SHOULD NOT REPLACE PERSONAL ATTENDANCE WHERE POSSIBLE. HOWEVER, IT MAY PROVIDE SMALL COMMUNITIES WITH INEXPENSIVE ACCESS TO VALUABLE RESOURCES AND TO WIDELY ACCLAIMED PERSONS. WH</p>	0544C

REC'D INDEX

0545C *** 0545C
 ON THE LINE
 NEWSWEEK 59, P92+, MARCH 12, 1962
 // MISSOURI STEPHENS-COLLEGE MICHIGAN-UNIV HIGHER-ED POLITICAL-SCIENCE LEGAL-STUDIES
 COURTROOM-PROCEEDINGS CCTV
 THIS NEWS ARTICLE DESCRIBES TWO CURRENT USES OF TELECOMMUNICATIONS AS TEACHING TOOLS IN HIGHER
 EDUCATION. STEPHENS COLLEGE (MISSOURI) IS USING THE TELEPHONE TELELECTURE TECHNIQUE TO
 FACILITATE TWO-WAY INTERVIEWS WITH POLITICAL LEADERS FOR ITS STUDENTS. THE 30-MINUTE
 OPPORTUNITIES TO HEAR AND QUESTION POLITICAL NOTABLES HAVE PROVIDED STEPHENS' STUDENTS WITH
 'THE EXCITEMENT OF STREET CORNER POLITICS ALONG WITH THE OBJECTIVITY OF THE CLASSROOM.' LAW
 STUDENTS AT THE UNIVERSITY OF MICHIGAN CAN VIEW ACTUAL COURTROOM PROCEEDINGS VIA CLOSED CIRCUIT
 TELEVISION. THIS SYSTEM IS ESPECIALLY USEFUL BECAUSE STUDENTS CAN DISCUSS CERTAIN POINTS AS
 THEY ARISE WITHOUT DISTURBING THE PROCEEDINGS. IF THE JUDGE WISHES TO CLEAR THE COURT, HE
 SIMPLY ORDERS IT AND INSTRUCTS THE BAILIFF TO SHUT OFF THE TV CAMERA. CM

0546 *** 0546
 WHAT'S COMING TOMORROW FROM TODAY'S TELEPHONES
 U.S. NEWS AND WORLD REPORT 56, P60-4, MARCH 9, 1964

0547C *** RUBIN, HAROLD 0547C
 TELEPHONE NETWORK COURSES
 EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 43, P128-32+, MARCH 1964

0549C *** MYERS, KENT C. 0549C
 LEARNING BY TELEPHONE
 CLEARING HOUSE 39, P475-9, APRIL 1965

0550C *** 0550C
 VISUALS FOR TELELECTURE AND CAMPUS AUDIO NETWORKS
 AUDIOVISUAL INSTRUCTION 10, P468-9, JUNE 1965
 // MISSOURI STEPHENS-COLLEGE MICHIGAN WESTERN-MICHIGAN-UNIV HIGHER-ED HISTORY-TELECONF
 VISUAL-AIDS ELECTROWRITER HOME-STUDY
 THIS ARTICLE REPORTS A MEETING AT WHICH CARL B. SNOW OF WESTERN MICHIGAN UNIVERSITY AND CHARLES F.
 MADDEN OF STEPHENS COLLEGE (MISSOURI) BRIEFLY RELATED THE ELECTRONIC RESOURCES AVAILABLE AT
 THEIR RESPECTIVE SCHOOLS. SNOW DESCRIBED WESTERN MICHIGAN'S DORMITORIES, WHICH ARE EQUIPPED
 WITH MULTICHANNEL AUDIO CLOSED CIRCUITS TO AID STUDENTS IN THEIR STUDIES. MADDEN PRESENTED A
 BRIEF HISTORY OF TELELECTURES, FOCUSING ON VISUAL AIDS, ESPECIALLY THE ELECTROWRITER. HE
 CONCLUDED BY DESCRIBING A 16 STATION HOOKUP TO BE IMPLEMENTED IN THE AUTUMN OF 1965 UNDER THE
 COORDINATION OF STEPHENS COLLEGE. FK

0552C *** 0552C
 WISCONSIN TELEPHONE HOOK-UP, STATEWIDE TELEPHONE CONFERENCES
 AMERICAN SCHOOL BOARD JOURNAL 155, P20, MARCH 1968
 // WISCONSIN WASB EDUCATION-ADMINISTRATION EXTENSION-UNIV ROLL-CALL EVALUATION-SUBJECTIVE
 IN DECEMBER OF 1967 WISCONSIN SCHOOL BOARD MEMBERS AND ADMINISTRATORS CONFERRED VIA A TELEPHONE
 LINK-UP BETWEEN 20 LOCATIONS THROUGHOUT THE STATE. ARRANGED BY THE WISCONSIN ASSOCIATION OF
 SCHOOL BOARDS (WASB), THIS CONFERENCE DEALT WITH SALARY NEGOTIATIONS AND LEGISLATIVE
 DEVELOPMENTS AFFECTING PUBLIC EDUCATION. USING TELEPHONE FACILITIES PROVIDED BY UNIVERSITY
 EXTENSION OF THE UNIVERSITY OF WISCONSIN, THE CONFERENCE CONSISTED OF REPORTS FROM PARTICIPANTS
 FOLLOWED BY A ROLL CALL QUESTION AND ANSWER PERIOD. ROBERT ZIEMER, WASB PRESIDENT, CALLED THE
 CONFERENCE 'EXTREMELY SUCCESSFUL.' REPORTS RECEIVED BY THE WASB TERMED THE CONFERENCE
 'EXTREMELY VALUABLE,' AND PARTICIPANTS UNANIMOUSLY FAVORED HAVING MORE SUCH CONFERENCES IN THE
 FUTURE. FK

0554C *** MEYER, THOMAS C. * HANSEN, RICHARD H. * KELIHER, JERRY J. 0554C
 TELELECTURES FOR PHYSICIANS AND ALLIED HEALTH PERSONNEL
 MEDICAL AND BIOLOGICAL ILLUSTRATION 18, P18-23, JAN 1968
 // WISCONSIN-UNIV POSTGRADUATE-ED MEDICAL-ED PARAMEDICAL-ED RADIO LEASED-LINES VISUAL-AIDS
 EVALUATION-PRE-AND-POST-TESTING EVALUATION-DELAYED-POST-TESTING
 IN NOVEMBER 1965, THE UNIVERSITY OF WISCONSIN MEDICAL CENTER INITIATED A TELELECTURE PILOT PROJECT
 DESIGNED TO BRING POSTGRADUATE INSTRUCTION TO PHYSICIANS THROUGHOUT WISCONSIN. CONDUCTED OVER
 LEASED TELEPHONE LINES, PROGRAMS CONSISTED OF A 30-MINUTE TAPED LECTURE, USUALLY ACCOMPANIED BY
 VISUAL AIDS, FOLLOWED BY A LIVE QUESTION AND ANSWER SESSION. PROGRAMS TRANSMITTED OVER THE
 NETWORK INCLUDED 1) GENERAL MEDICAL CONFERENCES, WHICH RANDOMLY COVERED MANY SUBJECTS 2) A
 PEDIATRIC JOURNAL CLUB 3) AN EXPERIMENTAL COURSE IN ELECTROCARDIOGRAPHY AND 4) PROGRAMS FOR
 ALLIED HEALTH PERSONNEL. IN 1966-67 THE NETWORK EXPANDED GREATLY, AND SOME STATIONS WERE ADDED
 WHICH RECEIVED PROGRAMS BY RADIO RATHER THAN TELEPHONE. SEVERAL EXPERIMENTS WERE ATTEMPTED,
 INCLUDING ONE IN WHICH A SERIES OF VETERINARY LECTURES ORIGINATED IN EAST LANSING, MICHIGAN,
 IN AN ATTEMPT TO ACHIEVE EVALUATION, PRE-TESTS, POST-TESTS AND SIX-MONTH POST-TESTS WERE GIVEN
 TO THOSE PHYSICIANS TAKING THE ELECTROCARDIOGRAPHY COURSE. RESULTS COMPARED FAVORABLY WITH
 THOSE OF MEDICAL STUDENTS TAKING THE SAME COURSE IN A CLASSROOM. FK

REC'D INDEX

- 0562C ***
 REVIEWING LESSONS FOR ABSENTEE STUDENTS
 SCHOOL MANAGEMENT 11,2, P15, FEB 1967
 // RIVERSIDE CALIFORNIA ALVORD-SCHOOL-DISTRICT SECONDARY-ED DIAL-ACCESS TITLE-III
 THE ALVORD SCHOOL DISTRICT IN RIVERSIDE, CALIFORNIA HAS PROPOSED A DIAL-ACCESS SYSTEM WHICH WOULD ALLOW STUDENTS WHO ARE ABSENT FROM SCHOOL TO RECEIVE HOMEWORK ASSIGNMENTS AND BRIEF LESSON SUMMARIES MERELY BY DIALING A TELEPHONE NUMBER. HAVING MADE SOME PROGRESS WITH THIS PROJECT, ALVORD HOPES TO PLACE A FEW SELECTED HIGH SCHOOL COURSES ON DIAL-ACCESS TAPE WITH FEDERAL FUNDS SUPPLIED UNDER ESEA TITLE III. FK 0562C
- 0564C *** EDINGER, WARD
 THE TECHNIQUE OF TELE-LECTURE
 NEW YORK STATE EDUCATION 52, P35, MAY 1965
 // ALBANY NEW-PALTZ NEW-YORK STATE-UNIVERSITY-COLLEGE HIGHER-ED SEMINAR-ENRICHMENT EDUCATION-ADMINISTRATION
 THE AUTHOR DESCRIBES THE PLANNING AND PRESENTATION OF A TELE-LECTURE DELIVERED BY DR. WILLIAM HAGENY OF SUC NEW PALTZ TO HIS SEMINAR OF INTERNS IN EDUCATIONAL ADMINISTRATION AT SUC ALBANY. THE SIMPLE AND INEXPENSIVE EQUIPMENT FOR THE LECTURE INCLUDED A MICROPHONE AND RECEIVER ATTACHED BY THE TELEPHONE COMPANY TO THE TELEPHONE LINE IN THE ALBANY SEMINAR ROOM. THE LECTURER USED HIS UNAUGMENTED OFFICE PHONE. BOTH HAGENY AND PARTICIPATING INTERNS WERE GIVEN INFORMATION ABOUT EACH OTHER PRIOR TO THE TELELECTURE. THE ACTUAL SEMINAR INCLUDED A LECTURE BY HAGENY AND A DISCUSSION PERIOD. STUDENT RESPONSE WAS ENTHUSIASTICALLY FAVORABLE. FK 0564C
- 0565C *** HAGENY, WILLIAM J. * DAVIDSON, ROBERT C. * PRICE, JOHN F.
 ELECTRONIC WANDERLAND, HARBRINGER OF THE FUTURE
 NEW YORK STATE EDUCATION 95, P14-5+, APRIL 1968
 // NEW-PALTZ NEW-YORK STATE-UNIVERSITY-COLLEGE HIGHER-ED EDUCATION-LAW ELECTROWRITER TV VIDEOTAPE EVALUATION-COURSE-SUCCESS NEW-YORK-TELEPHONE-CO
 IN THE FALL OF 1968, A TEAM OF FACULTY MEMBERS OF THE STATE UNIVERSITY COLLEGE AT NEW PALTZ, NEW YORK EXPERIMENTED WITH AN INSTRUCTIONAL SYSTEM THAT UTILIZED FOUR DISTINCT ELECTRONIC TECHNIQUES, TELEVISION, TELE-LECTURE, TALK-BACK AND TELEWRITING. THE FIRST COURSE TO BE OFFERED, EDUCATION LAW, WAS TRANSMITTED FROM NEW PALTZ TO TWO REMOTE CAMPUS CENTERS. A TYPICAL CLASS MEETING BEGAN WITH A HALF-HOUR VIDIOTAPED PRESENTATION ON A SPECIFIC SUBJECT. FOR MANY REASONS, TELEVISION, RATHER THAN FILM, WAS UTILIZED. FOLLOWING THIS PRESENTATION, AN HOUR-LONG TELE-LECTURE EXPANDED UPON THE CHOSEN SUBJECT, WHILE A VICTOR ELECTROWRITER WAS USED AS A VISUAL AID. A 'TALK-BACK' DISCUSSION FOLLOWED, WHICH COULD BE HEARD AT BOTH CAMPUSES BECAUSE OF A CONFERENCE-BRIDGING NETWORK DESIGNED BY THE NEW YORK TELEPHONE COMPANY. RESULTS BASED ON FINAL EXAMS AND TERM PAPERS INDICATE THAT COURSE PERFORMANCE WAS ABOUT THE SAME AS WHEN THE COURSE WAS GIVEN FACE-TO-FACE. STUDENTS' REACTION WAS ALSO GENERALLY FAVORABLE, LARGELY BECAUSE OF TELELECTURE'S TIME-SAVING CHARACTERISTICS. FK 0565C
- 0566C *** MOERS, R. WAYNE * CURETON, JAN W.
 HOMEBOUND-LESS
 AUDIOVISUAL INSTRUCTION 10, P70E-9, NOV 1965
 // WATERLOO IOWA HOMEBOUND-CHILDREN PRIMARY-ED SECONDARY-ED VISUAL-AIDS FIELDTRIP
 MANY INNOVATIVE TECHNIQUES, INCLUDING A HOME-TO-SCHOOL TELEPHONE LINKUP, HAVE BEEN UTILIZED BY MRS. FRANCES STRAWN OF WATERLOO, IOWA, AN ITINERENT TEACHER OF THE HOMEBOUND. USED FOR TEACHING BOTH ELEMENTARY AND HIGH SCHOOL STUDENTS, HOMEBOUND EDUCATION IS AIMED AT HELPING STUDENTS CONFINED TO HOSPITALS OR THEIR HOMES KEEP UP WITH THEIR CLASSES IN THE BASIC TOOLS AREAS. TO SUPPLEMENT THE TELEPHONE LINKUP, MRS. STRAWN VISITS HOMEBOUND STUDENTS ABOUT THREE TIMES A WEEK, TAKING WITH HER VISUAL AIDS AND OTHER INSTRUCTIONAL MATERIALS. OCCASIONALLY, INDIVIDUAL AND GROUP FIELD TRIPS ARE PLANNED. PARENTAL COOPERATION IS VITAL. IN HER HOMEBOUND EDUCATION PROGRAM, MRS. STRAWN SEEKS TO FOSTER SOCIAL MATURITY AND GOOD USE OF LEISURE TIME AS WELL AS INTELLECTUAL DEVELOPMENT. FK 0566C
- 0568C *** SEYMCUR, MARJORIE H.
 AUDIOVISUALS ENRICH ISOLATED SCHOOLS
 INSTRUCTOR 78,1, P154, AUGUST 1968
 // CARBON-COUNTY WYOMING CCCIC LEARNING-CENTER MULTIMEDIA-LIBRARY COURSE-ENRICHMENT REGIONAL-COOPERATION ELECTROWRITER VERB
 BECAUSE OF THE GREAT SIZE OF CARBON COUNTY, WYOMING, EDUCATORS THERE FELT IT MOST PRACTICAL TO ESTABLISH A LEARNING OR CULTURAL CENTER TO SERVE THE APPROXIMATELY 4,100 SCHOOL CHILDREN IN THE 7,965 SQUARE MILE AREA. THIS CARBON COUNTY COORDINATED INSTRUCTIONAL CENTER (CCCIC) NOT ONLY ACQUIRED AUDIO-VISUAL EQUIPMENT AND INSTRUCTIONAL MATERIALS FOR LOAN TO CARBON COUNTY SCHOOLS, BUT IT ALSO OWNS AND COORDINATES THE USE OF A VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB). THE VERB SYSTEM INCLUDES OVERHEAD PROJECTORS WHICH ALLOW REMOTE LECTURERS TO WRITE AND DRAW IN CONJUNCTION WITH THEIR TELEPHONE LECTURE. BOTH THE GRAPHICS (VERB) AND THE AUDIO ARE TRANSMITTED VIA STANDARD TELEPHONE LINES. THE CCCIC COURSE ENRICHMENT PROGRAM WILL ATTEMPT TO BRING PRESENTATIONS BY NOTED AUTHORITIES TO CARBON COUNTY STUDENTS. THE COST OF SUCH A ONE-HOUR LECTURE FROM A U.S. SENATOR ON THE EAST COAST WAS 56 DOLLARS, OR ONE ONE-HUNDREDTH OF THE COST OF A CLOSED CIRCUIT TV BROADCAST OF EQUAL LENGTH. CM 0568C

RECID INDEX

0569C *** BROWN, SANDRA M. 0569C
 TELELECTURE, APPALACHIA'S IN-SERVICE CLASSROOM OF THE AIR
 INSTRUCTOR 78,2, P126, OCT 1968
 // TENNESSEE OHIO WEST-VIRGINIA KENTUCKY VIRGINIA INSERVICE-ED TEACHER-ED HEAD-START
 APPALACHIA-EDUCATIONAL-LAB EDUCATION-INC
 TELELECTURE WAS A PROJECT CONDUCTED BY EDUCATION, INC. UNDER THE AUSPICES OF THE APPALACHIA
 EDUCATIONAL LABORATORY IN CHARLESTON, WEST VIRGINIA. ITS PURPOSE WAS TO PROVIDE IN-SERVICE
 INSTRUCTION FOR TEACHERS IN REMOTE, EDUCATIONALLY AND ECONOMICALLY DEPRIVED AREAS OF
 APPALACHIA. BECAUSE OF THE DISTANCES INVOLVED AND THE ISOLATION OF THE PREDOMINANTLY ONE-ROOM
 SCHOOLS, SUCH TRAINING WOULD HAVE BEEN IMPOSSIBLE WITHOUT THE SPEAKER PHONE HOOKUPS. DESPITE
 SOME TECHNICAL DIFFICULTIES BECAUSE OF POVERTY AND ISOLATION, THE SYSTEM WORKED EFFICIENTLY.
 THE INSTRUCTOR MET ALL THE STUDENTS PERSONALLY BEFORE THE SIX-WEEK COURSE BEGAN AND
 CORRESPONDED WITH ALL OF THEM REGULARLY. STUDENT RESPONSE WAS ENTHUSIASTIC. CM

0570C *** HARRIS, CORNELIA 0570C
 DIAL O FOR OPERATOR
 INSTRUCTOR 78,5, P43, JAN 1969
 // PRESCHOOL-ED
 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. PLAY PHONES HELP HIM TO ENLARGE HIS VOCABULARY, USE MORE COMPLEX LANGUAGE
 PATTERNS, AND ACQUIRE CONCEPTS OF SOCIAL BEHAVIOR. ROLE PLAYING BECOMES SIGNIFICANT AND LESS
 SELF-CONSCIOUS.' MULTIMEDIA SUPPLEMENTS, INCLUDING BOOKS, FILMSTRIPS, ALBUMS AND POEMS ABOUT
 TELEPHONES, HAVE BEEN USED BY THIS TEACHER TO BUILD APPRECIATION FOR THE TELEPHONE. CM

0571 *** LEWIS, PHILIP 0571
 ETV, HOW TO PUT TOGETHER A COMMUNICATIONS SYSTEM, TELELECTURE INSTALLATIONS
 NATION'S SCHOOLS 76,4, P52, OCT 1965

0572C *** MCVICK, EUGENE 0572C
 WEST-MINIA, TELELECTURES HELP SIX DISTRICTS CONFER
 NATION'S SCHOOLS 78,4, P94, OCT 1966
 // IOWA NORTHEAST-TELEWRITER-PROJECT INSERVICE-ED TEACHER-ED ELECTROWRITER COST TITLE-I
 UNDER AN FSEA TITLE I GRANT, 1200 TEACHERS SERVING IN SIX SPARSELY POPULATED COUNTY SCHOOL
 DISTRICTS IN NORTHEAST IOWA ARE RECEIVING IN-SERVICE TRAINING VIA TELEPHONE AND ELECTROWRITER.
 THE AUDIO IS A SIMPLE PHONE CONNECTION. SUPPLEMENTARY NOTES, DRAWINGS AND TRANSPARENCIES ARE
 TRANSMITTED ON ELECTROWRITERS WHICH FUNCTION AS OVERHEAD PROJECTORS. SUPPLEMENTARY WORKSHOPS
 AND MEETINGS ARE HELD TO ROUND OUT THE PROGRAM. TYPICAL COST FOR A ONE AND ONE-HALF-HOUR
 PROGRAM IS 300 DOLLARS (EXCLUDING EQUIPMENT COSTS). CM

0573C *** BEHPENS, JOHN H. 0573C
 MULTIMEDIA FIELDTRIP REPLACEMENTS
 AUDIOVISUAL INSTRUCTION 12,7, P714-5, SEPT 1967
 // ILLINOIS-UNIV HIGHER-ED AGRICULTURE VISUAL-AIDS
 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 'REALTHING.'
 IN PLANNING A MULTIMEDIA FIELD TRIP, A PROFESSOR VISITS A SELECTED RESOURCE WHERE COLOR SLIDES
 AND/OR MOTION PICTURES ARE MADE. THESE PICTURES ARE SHOWN ON A REMOTE SLIDE PROJECTOR AND A
 MOTION PICTURE PROJECTOR, WHILE A DISCUSSION IS HELD OVER CONFERENCE AMPLIFIED TELEPHONE
 EQUIPMENT BETWEEN STUDENTS AND AN EXPERT AT THE SITE OF THE RESOURCE. OFTEN, AN OVERHEAD
 PROJECTOR AND PRINTED HANDOUTS ARE ALSO UTILIZED. FK

0574C *** DAVID, AUSTIN, F.S.C. 0574C
 THE COMPUTER, TELEVISION AND TELEPHONE AS EDUCATIONAL TOOLS
 AUDIOVISUAL INSTRUCTION 13, P1088-90, DEC 1968

0580C *** 0580C
 XEROX OFFERS FACSIMILES BY PHONE
 PRINTER'S INK 292, P52, MAY 27, 1966
 // TELECOPIER XEROX-MAGNAFAX-TELECOPIER MAGNAVUX-CO LDX COAXIAL-CABLE
 'THE XEROX MAGNAFAX TELECOPIER, INTRODUCED AND DEMONSTRATED SIMULTANEOUSLY IN NEW YORK AND LOS
 ANGELES, IS A DESK-TOP COPIER WHICH CONVERTS LIGHT SIGNALS INTO SOUNDS WHICH ARE PICKED UP BY A
 TELEPHONE RECEIVER, TRANSMITTED, AND RECONVERTED INTO LIGHT SIGNALS AT THE OTHER END.
 TRANSMISSION OF AN 8 AND ONE-HALF INCH BY 11 INCH PAGE TAKES ABOUT SIX MINUTES. A HALF-PAGE
 WOULD TAKE THREE MINUTES AND A SIGNATURE ONLY 30 SECONDS.' THE TELECOPIER IS 11 BY 18 BY 15
 INCHES, WEIGHS 46 POUNDS AND IS POWERED BY A STANDARD 110-VOLT OUTLET. TELECOPIER DIFFERS FROM
 LONG-DISTANCE-XEROX (LDC) IN THAT THE FORMER TRANSMITS OVER A TELEPHONE LINES, WHILE LDC
 TRANSMITS OVER COAXIAL CABLE. CM

0585C *** BEILIS, MICHEL 0585C
 TELELECTURE, A NEW LOOK
 BELL TELEPHONE MAGAZINE 43,2, P40-5, SUMMER 1964

REC'D INDEX

- 0589C *** SHAW, JOHN H. 0589C
- THE MEDICAL SCHOOL OF THE AIR
- MEDICAL JOURNAL OF AUSTRALIA 1, P869-71, JUNE 5, 1965
- // SYDNEY WOLLONGONG AUSTRALIA NEW-SOUTH-WALES-UNIV SYDNEY-UNIV POSTGRADUATE-ED MEDICAL-ED
INTERUNIVERSITY-COOPERATION RADIO-UNIVERSITY LAND-LINE-SYSTEM MAILED-MATERIALS
TAPE-RECORDING-SERVICE
- THE UNIVERSITY OF NEW SOUTH WALES HAS SPONSORED A SERIES OF POSTGRADUATE LECTURES FOR PRACTICING PHYSICIANS THROUGHOUT SOUTHEAST AUSTRALIA. CALLED THE MEDICAL SCHOOL OF THE AIR, THIS LECTURE SERIES COVERS NUMEROUS SUBJECTS AND IS HEARD OVER RADIO UNIVERSITY, THE ONLY AUSTRALIAN RADIO STATION LICENSED ENTIRELY TO AN EDUCATIONAL ENTITY. TRANSMITTERS ARE LOCATED IN SYDNEY AND WOLLONGONG. GEARED FOR THE GENERAL PRACTITIONER, THE SERIES BEGAN IN 1962 AND HAS EXPANDED GREATLY SINCE THEN, AS SHOWN BY GRAPHS CONTAINING FIGURES ON THE SYSTEM'S ENROLLMENT AND QUANTITY OF BROADCASTS. A TAPE-RECORDING SERVICE IS AVAILABLE TO PHYSICIANS WHO CANNOT RECEIVE PROGRAMS VIA RADIO, AND PRINTED MATERIALS ARE MAILED OUT PRIOR TO EACH PROGRAM. THE SYSTEM ALSO REBROADCASTS SELECTED MEDICAL PROGRAMS TRANSMITTED OVER THE UNIVERSITY OF SYDNEY'S LAND-LINE SYSTEM. HAVING A DISTINGUISHED ADVISORY COMMITTEE, THE MEDICAL SCHOOL OF THE AIR HAS PROVIDED AN EXCELLENT EXAMPLE OF INTER-UNIVERSITY COOPERATION AND COLLABORATION BETWEEN VARIOUS PROFESSIONAL BODIES. FK
- 0591C *** BLOCK, VICTOR 0591C
- HCW DOCTORS KEEP UP
- TODAY'S HEALTH 45, P56+, AUGUST 1967
- 0592C *** DAVID, AUSTIN, F.S.C. 0592C
- TEACHER EDUCATION THROUGH AN INNOVATION OF MODERN TECHNOLOGY
- NATIONAL CATHOLIC EDUCATION ASSOCIATION BULLETIN 65, P25-30, MAY 1969
- 0593C *** LAZC, N. 0593C
- CONFERENCE ARRANGEMENT FOR NDRAC
- BELL LABORATORY RECORD 42,7, P253-7, JULY-AUGUST 1964
- // NETWORKS MILITARY-USE
- *IF THERE IS A RED ALERT OR ACTUAL ENEMY ATTACK, THE MILITARY COMMAND POSTS MUST IMMEDIATELY CONTACT MANY ARMED SERVICES OPERATIONAL CENTERS AND ISSUE ORDERS COVERING RETALIATORY AND DEFENSE ACTION. THESE INSTRUCTIONS COULD NORMALLY BE ISSUED OVER RADIO FACILITIES. HOWEVER, SINCE THESE CHANNELS MIGHT BE EITHER MONITORED OR JAMMED BY THE ENEMY, A TELEPHONE AUTOMATIC CONFERENCING ARRANGEMENT NOW PROVIDES AN ALTERNATE MEANS OF TRANSMITTING ORDERS. IN ADDITION, THIS ARRANGEMENT PERMITS TWO-WAY TRANSMISSION BETWEEN THE COMMAND POST AND THE OPERATIONAL CENTERS WITHOUT REVEALING THE POSITIONS. THE SYSTEM CAN CONNECT THE CONFERENCE ORIGINATOR TO ALL CONFERENCE STATIONS IN A MINIMUM OF TIME, PROVIDE MAXIMUM RELIABILITY IN CASE OF TROUBLE WITHIN THE SWITCHING SYSTEM, AND FUNCTION DURING AND AFTER AN ENEMY ATTACK.' THE AUTHOR PRESENTS A TECHNICAL DESCRIPTION OF THIS CONFERENCING SYSTEM AND CONCLUDES THAT, 'THE AUTOMATIC CONFERENCING ARRANGEMENT MIGHT BE ADAPTED FOR USE IN OTHER AREAS WHERE INFORMATION FROM THE ORIGINATING POINT IS TRANSMITTED SIMULTANEOUSLY TO A NUMBER OF TERMINATING POINTS SUCH AS THE DATA TRANSMISSION AREA.' LC
- 0595C *** 0595C
- EDUCATION BY TELEPHONE
- BELL LABORATORY RECORD 42,1, P19, JAN 1964
- // DESCRIPTION-TELELECTURE OMAHA-UNIV HIGHER-ED TEACHER-SHARING VISUAL-AIDS
- THE APPLICATION OF TELEPHONE EQUIPMENT TO EDUCATIONAL NEEDS IS CAUSING '...A QUIET REVOLUTION THAT IS CHANGING TRADITIONAL TEACHING CONCEPTS.' IN USING THE TELELECTURE TECHNIQUE A PROFESSOR'S LECTURE IS RELAYED OVER TELEPHONE CIRCUITS TO OTHER COLLEGES, WHERE IT IS AMPLIFIED AND FED THROUGH SPEAKERS TO THE STUDENTS. VISUAL AIDS MAY BE USED IN CONJUNCTION WITH THE LECTURE AND MICROPHONES ALLOW DISTANT LISTENERS TO ASK QUESTIONS. THE UNIVERSITY OF OMAHA HAS CONDUCTED A NUMBER OF SUCCESSFUL EXPERIMENTAL TELELECTURES AND A CONFERENCE DESIGNED '...TO ACQUAINT BOTH EDUCATORS AND TELEPHONE COMPANY OFFICIALS WITH THE POSSIBILITIES OF TELE-LECTURE.' MANY EDUCATORS HAVE ACCLAIMED THIS NEW LECTURING TECHNIQUE. IT MAY RELIEVE TEACHER SHORTAGES, AS IT CAN PROVIDE STUDENTS, ESPECIALLY THOSE AT SMALL COLLEGES, WITH INSTRUCTION BY THE FINEST TEACHERS AVAILABLE. INDEED, IT PROVES '...THAT THE USES AND BENEFITS OF TELEPHONE SERVICE ARE AS VARIED AS MAN'S IMAGINATION.' WH
- 0596C *** HOYLER, ROBERT C. 0596C
- TIME DIVISION CONFERENCING OF FOUR-WIRE TELEPHONE CIRCUITS
- IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 15, P120-3, FEB 1967
- // ECHO DELAY CROSSTALK INTELLIGIBILITY MULTIPLEXING SATELLITE-LINKS
- *THIS PAPER DESCRIBES A SYSTEM WHICH CAN CONFERENCE UP TO SEVERAL HUNDRED 4-WIRE TELEPHONE CIRCUITS WITH SUFFICIENT RETURN LOSS TO PREVENT OBJECTIONABLE FAR-END ECHO EFFECTS. THE CAUSES AND PROBLEMS OF ECHO IN SUCH CONNECTIONS ARE DISCUSSED, AS WELL AS THE ADVANTAGES AND LIMITATIONS OF OTHER METHODS USED FOR CORRECTING THIS SITUATION. THE METHOD DESCRIBED USES A TIME-DIVISION ECHO TREATMENT SCHEME WITH A SIMPLE COMMON-BUS CONFERENCING TECHNIQUE. EACH TRANSMIT LINE IS SAMPLED AT THE NYQUIST RATE DURING WHICH TIME ITS CORRESPONDING RECEIVE LINE IS DISCONNECTED FROM THE BUS FOR THE DURATION OF THE SAMPLE TIME, THUS ELIMINATING THE RETURN PATH THROUGH THE CONFERENCE BUS. TO DEMONSTRATE FEASIBILITY, A WORKING SYSTEM IS DESCRIBED WHICH PROVIDES A RETURN LOSS OF AT LEAST 50 DB BELOW TRANSMISSION LEVEL WHEN THREE OUT OF A POSSIBLE 20 4-WIRE LINES ARE CONFERENCED.' 'THE USE OF LARGE, LONG DISTANCE CONFERENCES IS BECOMING VERY IMPORTANT IN WORLDWIDE VOICE AND DATA COMMUNICATIONS FOR MILITARY AND SPACE PURPOSES, AND SATELLITE LINKS COULD INTRODUCE APPRECIABLE TRANSMISSION DELAYS EVEN FOR RELATIVELY SHORT TERMINAL SEPARATIONS. SINCE THIS SYSTEM FEATURES THE COMBINATION OF LARGE CAPACITY, HIGH RETURN LOSS, AND IMMEDIATE BREAK-IN THAT IS DESIRABLE FOR SUCH APPLICATIONS, IT APPEARS TO BE A USEFUL SOLUTION TO THE PROBLEMS ENCOUNTERED WITH 4-WIRE CONFERENCING FOR VOICE OR FULL-DUPLEX DATA.' AUTHOR'S ABSTRACT WITH NOTE ADDED BY LC.

REC'D INDEX

0597C *** KUEBLER, WILLIAM P. 0597C
 A MULTIPORT TELEPHONE CONFERENCE BRIDGE
 IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 16,1, P168-72, FEB 1968
 // NOGAC NETWORKS ECHO 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 TWO-WIRE SUBSCRIBERS ARE CONNECTED TOGETHER, THE SUM OF THE RETURNING ECHOES IS SUBSTANTIAL. IN THE NEW BRIDGE, EACH PORT IS EQUIPPED WITH A VOICE ACTIVATED GAIN SWITCH THAT KEEPS A FIXED AMOUNT OF LOSS IN EACH OF THE TWO-WIRE LOOPS. *A MODEL OF THE MULTIPORT BRIDGE HAS BEEN IN SERVICE ON A TRIAL BASIS FOR EIGHT MONTHS. THE EASE OF OPERATION AND IMPROVED TRANSMISSION CHARACTERISTICS WERE NOTED AND COMMENTED UPON BY OPERATING PERSONNEL ALMOST IMMEDIATELY. * AUTHOR'S ABSTRACT WITH NOTE ADDED BY LC.

0598C *** MITCHELL, DOREN 0598C
 GENERAL TRANSMISSION CONSIDERATIONS IN TELEPHONE CONFERENCE SYSTEMS
 IEEE TRANSACTIONS ON COMMUNICATIONS TECHNOLOGY 16,1, P163-7, FEB 1968
 // NOGAC NETWORKS NOISE ECHO SINGING VOICE-SWITCHING TOLL-TELEPHONE-CONFERRING LOUDSPEAKER-CONFERENCE-SYSTEM AUTOVON
 *A GENERAL DISCUSSION OF THE TRANSMISSION PROBLEMS INVOLVED IN TELEPHONE CONFERENCE SYSTEMS DUE TO NOISE, ECHO, AND SINGING IS PRESENTED. THE APPLICATION OF VOICE SWITCHED LOSS SEEMS TO BE THE BEST WAY TO ALLEVIATE THESE DIFFICULTIES. NEW PROBLEMS MUST NOW BE CONSIDERED DUE TO WEAK TALKERS AND OCCASIONAL SIMULTANEOUS TALKING. TWO TYPES OF CONFERENCE CONNECTIONS ARE DISCUSSED. FIRST, WHEN THREE OR MORE TELEPHONES ARE CONNECTED TOGETHER, AND SECOND, WHEN GROUPS OF PEOPLE AT TWO OR MORE LOCATIONS TALK BACK AND FORTH USING MICROPHONES AND LOUDSPEAKERS. RECENT WORK DISCUSSED HERE PROVIDES SUBSTANTIAL TRANSMISSION IMPROVEMENT FOR THIS TYPE OF SERVICE. * AUTHOR'S ABSTRACT

0602C *** WOLSEY, FRANK M., JR. * STRAUSS, WILLIAM T. 0602C
 POSTGRADUATE MEDICAL EDUCATION IN MAINE - A NEW EXPERIMENT UTILIZING TWO-WAY RADIO AND TELEVISION
 JOURNAL OF THE MAINE MEDICAL ASSOCIATION 55, P172-3, SEPT 1964

0605C *** MONTS, ELIZABETH A. * PETERSON, BERNADINE H. 0605C
 GRADUATE TEACHING BY TELEPHONE AND RADIO
 JOURNAL OF HOME ECONOMICS 61,6, P443-7, JUNE 1969

0661 *** DREYFUS, LEE S. * GUMPert, GARY 0661
 STUDENTS VISIT VIA SATELLITE
 NAER JOURNAL, P6-13, MAY-JUNE 1966

0680C *** DREYFUS, LEE S. * LOOFBORG, PAUL M. 0680C
 FIRST INTERCONTINENTAL TV CLASSROOM
 AMERICAN SCHOOL BOARD JOURNAL 151, P29+, SEPT 1965
 // INTERNATIONAL-TELECONF WEST-BEND WISCONSIN PARIS FRANCE SECONDARY-ED CROSS-CULTURAL-EXCHANGE FRENCH-LANGUAGE TV SATELLITE EARLY-BIRD COST WHA-TV RADIODIFFUSION-TELEVISION-FRANCAISE
 THE EARLY BIRD COMMUNICATIONS SATELLITE WAS USED ON MAY 31, 1965 TO PROVIDE A TELEVISION LINK BETWEEN FRENCH STUDENTS OF THE ENGLISH LANGUAGE IN THE LYCEE HENRI IV IN PARIS AND AMERICAN, FRENCH LANGUAGE STUDENTS IN WEST BEND HIGH SCHOOL, WEST BEND, WISCONSIN. *THE AMERICAN STUDENTS SPOKE IN FRENCH AND THE FRENCH STUDENTS SPOKE ENGLISH. *THE AUTHORS DESCRIBE THE ARRANGEMENTS MADE WITH WHA-TV AND RADIODIFFUSION-TELEVISION FRANCAISE FOR THE TELEVISION PRODUCTION, WITH THE WISCONSIN TELEPHONE COMPANY AND COMSAT FOR THE MICROWAVE CONNECTION AND GROUND STATION USE AND WITH AT&T FOR THE FREE USE OF THE SATELLITE. THE LINK COST APPROXIMATELY 4,000 DOLLARS FOR THE LAND LINES BETWEEN WISCONSIN AND THE SATELLITE GROUND STATION IN MAINE. EDUCATIONALLY, THE EXPERIMENTAL LINK PROVIDED THE EXCITEMENT OF PARTICIPATION IN A SIGNIFICANT EXPERIMENT, THE OPPORTUNITY TO SPEAK A FORMALLY LEARNED, SECOND LANGUAGE WITH NATIVE SPEAKERS AND SPONTANEOUS LIVE EXCHANGE OF CONVERSATION ACROSS CULTURES. THE STUDENTS BECAME CONSCIOUS OF CERTAIN CULTURAL DIFFERENCES, WHILE COMING TO APPRECIATE SHARED TASTES AND INTERESTS. INDEED, THE EXCHANGE PROVIDED CONSIDERABLE MOTIVATION FOR THE CONTINUATION OF LANGUAGE STUDY. DREYFUS AND LOOFBORG URGE THE GOVERNMENT TO TAKE IMMEDIATE ADVANTAGE OF THIS TECHNOLOGICAL TOOL FOR ITS SOCIAL AND EDUCATIONAL USES. *WE MIGHT GENERALLY SAY THAT THIS WOULD SEEM TO BE A SURE-FIRE METHOD OF INCREASING INTERNATIONAL UNDERSTANDING. IN THIS IT WOULD RESEMBLE THE AMERICAN FIELD SERVICE AND OTHER EXCHANGE PROGRAMS NOW IN EXISTENCE, WITH THE VERY OBVIOUS ADVANTAGE OF DIRECTLY AND PERSONALLY INVOLVING MORE PERSONS THAN ANY OF THE PRESENT PROGRAMS WITH A SIMILAR GOAL COULD HOPE TO DO. * WH

4000C *** U.S. ARMY 4000C
 COMMUNICATIONS. TELETYPEWRITER AND TELEPHONE CONFERENCES
 ARMY REGULATIONS NO. 105-40. WASHINGTON, HEADQUARTERS. DEPARTMENT OF THE ARMY, 1967

REC'D INDEX

4002C

4002C

THE INDIVIDUALIZATION OF THE IN-SERVICE PROGRAM FOR PROFESSIONAL STAFF

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

// ANTIGO MOSINEE ROTHSCHILD-SCHOFIELD WAUSAU STEVENS-POINT WISCONSIN-STATE-UNIV TEACHER-ED EVALUATION-QUESTIONNAIRE EVALUATION-ATTENDANCE-RECORD ELECTROWRITER TITLE-III

THIS BROCHURE DESCRIBES THE IN-SERVICE EDUCATION PROGRAM OF THE ESEA TITLE III TELE-WRITER PROJECT CONDUCTED AT WISCONSIN STATE UNIVERSITY-STEVENSON POINT BETWEEN 1967 AND 1970. THIS PROGRAM WAS DEVELOPED TO PROVIDE CONTINUOUS IN-SERVICE EDUCATION ON A COOPERATIVE BASIS IN THE WISCONSIN SCHOOL DISTRICTS OF ANTIGO, MOSINEE, ROTHSCHILD-SCHOFIELD AND WAUSAU BY FILLING THE EXPRESSED IN-SERVICE NEEDS OF THE TEACHERS DURING THE SCHOOL DAY. THE PROGRAM UTILIZES THE MEDIA OF TELELECTURE AND ELECTROWRITER. EACH SCHOOL DISTRICT HAS ONE LISTENING STATION EQUIPPED WITH AN ELECTROWRITER RECEIVER TO PROJECT VISUAL AIDS. THE AUDIO IS RECEIVED VIA A SPEAKER AND INTERACTION IS CONDUCTED VIA REGULAR TELEPHONE LINES. THE LECTURING STATION AT STEVENSON POINT UTILIZES A HANDS-FREE MICROPHONE, SPEAKER AND AN ELECTROWRITER TRANSMITTER. EVALUATION IS CONDUCTED BY MEANS OF A POST-MEETING REACTION SHEET AND AN ATTENDANCE CARD. OTHER PROGRAMS IN THE PROJECT INCLUDE THE INCREASED USE OF PARAPROFESSIONALS, THE STUDY OF CURRICULAR POLICIES AND PROCEDURES AND IN-SERVICE TRAINING FOR CURRICULAR CHANGE, AND AN ADMINISTRATOR DEVELOPMENT PROGRAM. THE PAMPHLET LISTS TELE-WRITER PROGRAMS FOR IN-SERVICE EDUCATION. KS

4008C

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

4008C

LONG-DISTANCE SEMINARS

CAMBRIDGE, 1969. 6P

// ENGLAND-EDINBURGH-UNIV CAMBRIDGE-UNIV MANCHESTER-UNIV SHEFFIELD-UNIV INTER-UNIVERSITY-RESEARCH-UNIT NATIONAL-EXTENSION-COLLEGE INTERUNIVERSITY-COOPERATION POSTGRADUATE-ED STATISTICS EVALUATION-QUESTIONNAIRE CONFRAPHONE ELECTROWRITER COST

IN APRIL 1968, THE BRITISH INTER-UNIVERSITY RESEARCH UNIT CONDUCTED LONG-DISTANCE SEMINARS LINKING THE UNIVERSITIES OF CAMBRIDGE AND EDINBURGH. CONFRAPHONE EQUIPMENT, CONSISTING OF TABLE MICROPHONES, SMALL OMNIDIRECTIONAL SPEAKERS AND TWO REGULAR TELEPHONE CIRCUITS, WAS USED TOGETHER WITH THE ELECTROWRITER, WHICH ACTS AS A REMOTE BLACKBOARD AND '...CAN BE USED IN EITHER DIRECTION OVER A SINGLE TELEPHONE CIRCUIT.' SINCE THIS TRIAL LASTED ONLY TEN DAYS, A FURTHER EXPERIMENT WAS CONDUCTED BETWEEN OCTOBER 20, AND NOVEMBER 7, 1969. THE JOINT SCHOOL OF PROBABILITY AND STATISTICS IN THE UNIVERSITIES OF SHEFFIELD AND MANCHESTER USED THESE DEVICES TO CONDUCT POSTGRADUATE SEMINARS LINKING ITS TWO BRANCHES. THE RESULTS SUBSTANTIATED THOSE OF THE EARLIER TRIAL. NEGATIVE CRITICISM WAS LARGELY CONFINED TO TECHNICAL DETAIL, SUCH AS THE INABILITY OF THE ELECTROWRITER TO RECALL PREVIOUSLY WRITTEN INFORMATION. INDEED, MOST PARTICIPANTS TERMED THE EXPERIMENTAL LINK VERY SUCCESSFUL. THIS SYSTEM PROVIDES AN INEXPENSIVE WAY OF LINKING ACADEMICS TOGETHER, AND IF SHEFFIELD AND MANCHESTER UNIVERSITIES INSTALL IT PERMANENTLY, THE LINK MAY WELL BEGIN AN EXTENSIVE INTER-UNIVERSITY NETWORK. WH

4009A

*** GORCSCH, MAX

4009A

TEACHING BY TELEPHONE, AN EXPERIMENT IN LANGUAGE TEACHING

INTERNATIONAL REVIEW OF APPLIED LINGUISTICS IN LANGUAGE TEACHING 5,2/3, P123-39, JULY 1967. ERIC ED 013 054

// SWEDEN TEACHER-ED ENGLISH-LANGUAGE SELF-INSTRUCTION CORRESPONDENCE-ED ARTICULATED-INSTRUCTION PROGRAMED-INSTRUCTION EVALUATION

PROFICIENCY IN ENGLISH IS A REQUIREMENT IN SWEDEN FOR VOCATIONAL SCHOOL TEACHERS. TEACHING BY TELEPHONE WAS EXPERIMENTED WITH IN AN ATTEMPT TO CREATE A RESERVE OF THESE TEACHERS WHO WOULD MEET THE REQUIRED PROFICIENCY LEVEL. CANDIDATES WHO PASSED AN INITIAL PROFICIENCY TEST FOLLOWED A COURSE FOR FOUR MONTHS IN WHICH SELF-INSTRUCTIONAL BOOKS WITH TAPES WERE USED, SUPPLEMENTARY MATERIALS WERE STUDIED, AND 15 TO 20 MINUTE TELEPHONE LESSONS WERE GIVEN EACH SECOND WEEK. THIS ARTICLE DESCRIBES, WITH SPECIFIC DETAILS, THE OBJECTIVES OF THE COURSE, THE INITIAL AND FINAL TESTS OF LANGUAGE SKILLS, THE BASIC COURSE MATERIALS, AND THE PROCEDURES AND CONTENT OF THE TELEPHONE LESSONS. THE RESULTS OF THE TELEPHONE COURSE ARE EVALUATED IN TERMS OF THEIR PRACTICAL APPLICABILITY, THE DEVELOPMENT OF THE TEST, AND THE ATTITUDES OF THE PARTICIPANTS. THERE WAS SOME NOTICEABLE GAIN IN PRONUNCIATION FEATURES, AND ALTHOUGH ADVANCEMENT WAS UNEQUAL AMONG THE PARTICIPANTS, SEVERAL FOUND, DESPITE THE UNNATURAL SITUATION WITH THE TELEPHONE, THAT THE TELEPHONE CALLS SERVED AS A GOOD STIMULUS FOR PREPARING THE SELF-INSTRUCTIONAL COURSE. (SS). ERIC

4010A

4010A

TELEPHONIC SEMINAR IN FOREIGN-RELATIONS

COLUMBIA, MISSOURI, SCHOOL DISTRICT PROJECT NUMBER DPSC-68-5728. 35P. PAGE ES 002 130

// COLUMBIA MISSOURI SECONDARY-ED COURSE-ENRICHMENT ADULT-ED VISUAL-AIDS INDEPENDENT-STUDY

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

- 4011A ***
 INDIVIDUALIZATION OF THE INSERVICE PROGRAM FOR PROFESSIONAL STAFF
 WAUSAU, WISCONSIN, JOINT SCHOOL DISTRICT 1 PROJECT NUMBER DPSC-67-3560. 70P. PACE ES 001 489
 // WAUSAU WISCONSIN TEACHER-ED 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 IMPLEMENTED THROUGH THE USE OF AMPLIFIED TELEPHONE RECEIVERS AND REMOTE BLACKBOARD TELEWRITERS IN A CENTRAL CONFERENCE AREA AT EACH SCHOOL LOCATION. SPECIALISTS OR PROFESSORS IN THE AREAS OF TEACHER NEEDS WILL TRANSMIT THEIR PRESENTATIONS FROM A CENTRAL LOCATION AT A NEIGHBORING UNIVERSITY. TRAINING SESSIONS WILL BE SCHEDULED DURING THE SCHOOL DAY. SUBJECT AREAS INCLUDE 1) AN ADMINISTRATOR DEVELOPMENT PROGRAM COVERING ORIENTATION AND INTERNSHIPS 2) STUDIES OF CURRICULAR POLICIES AND PROCEDURES FOR ANALYSIS, DESIGN, AND DEVELOPMENT OF CURRICULUM AND 3) A MODEL FOR INTRODUCTION OF CHANGE AND INSERVICE EDUCATION AS A PART OF THE PROFESSIONAL DAY. CHANGE WILL BE IMPLEMENTED THROUGH A NEW DESIGN FOR STAFF UTILIZATION INCLUDING TEACHING TEAMS FOR EACH TWO GRADE LEVELS IN THE ELEMENTARY SYSTEM. A TEACHER FROM EACH TEAM WILL SERVE AS A LIAISON WITH THE ADMINISTRATIVE STAFF. TEACHER AIDES OR PARAPROFESSIONALS WILL BE INCLUDED TO ALLOW THE FLEXIBILITY 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 DISTRICT WILL DETERMINE TRAINING NEEDS FOR THE PROGRAM AND ACT AS A LIAISON FOR INTERDISTRICT COORDINATION. APPROXIMATELY 849 STAFF MEMBERS WILL BE INVOLVED IN THE PROGRAM AND 18,021 STUDENTS WILL BE SERVED. (MC). PACE
- 4014A *** AULT, LESLIE H.
 A SITUATION TEST OF TRAINING EFFECTIVENESS
 NEW YORK, XEROX CORPORATION, 1968. 10P. ERIC ED 019 625
 // VOCATIONAL-ED ADULT-ED MULTIMEDIA-INSTRUCTION EVALUATION
 AS PART OF THE EVALUATION OF A MULTIMEDIA COURSE FOR MANAGERIAL PERSONNEL ON PROBLEM-SOLVING DISCUSSIONS, A SPECIAL CASE WAS DEVELOPED TO TEST TRAINEES' APPLICATION OF THEIR SKILLS IN A NEW SETTING. THE CASE PLACED EACH SUBJECT IN THE ROLE OF A PLANT MANAGER WITH A PROBLEM TO SOLVE, WITH TWO SUBORDINATES AVAILABLE FOR CONSULTATION. THE ROLES OF THE SUBORDINATES WERE CAREFULLY STRUCTURED, AND THE PEOPLE PLAYING THESE ROLES WERE NOT INFORMED AS TO THE NATURE OF THE EXPERIMENT. A TOTAL OF 30 SALES MANAGERS FROM TWO COMPANIES TOOK PART. FOURTEEN HAD BEEN TRAINED THREE MONTHS PREVIOUSLY, AND 16 WERE CONTROLS. EACH SUBJECT WAS GIVEN BACKGROUND INFORMATION AND THEN PLAYED THE CASE OVER THE TELEPHONE AT AN APPOINTED HOUR. THE SOLUTIONS TO THE PROBLEM WERE GRADED ON THE BASIS OF A PREESTABLISHED SCALE. THE RESULTS SHOWED THAT MANAGERS WITH TRAINING REACHED BETTER SOLUTIONS AND REACHED THEM FASTER THAN MANAGERS WITHOUT TRAINING. THE USE OF THE TELEPHONE, DICTATED BY THE GEOGRAPHICAL DISPERSION OF THE SUBJECTS, PROVED FEASIBLE, THUS SUGGESTING APPLICATIONS IN TRAINING AND RESEARCH, PARTICULARLY WHERE VERBAL INTERACTION IS BEING STUDIED. (AUTHOR/RT). ERIC
- 4015A *** 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. (LH). ERIC
- 4016C *** KLUGMAN, EDGAR
 PROJECT EAR, EDUCATIONAL AMATEUR RADIO
 OCTOBER 1966. MIMED. 19P
 // HARRISON NEW-YORK UYUMBICHO ECUADOR INTERNATIONAL-TELECONF CROSS-CULTURAL-TELECONF PRIMARY-ED CURRICULUM-ENRICHMENT COMMUNICATION-SKILLS INTERNATIONAL-EDUCATIONAL-NETWORK
 SPEAKERPHONE AMATEUR RADIO TRANSMISSION WAS USED EXPERIMENTALLY DURING THE 1964-65 SCHOOL YEAR TO LINK HARRISON AVENUE ELEMENTARY SCHOOL IN HARRISON, NEW YORK WITH A RURAL SCHOOL IN UYUMBICHO, ECUADOR. THE SUCCESS OF THIS PROJECT LED TO AN EXPANSION IN THE SCHOOL'S USE OF RADIO DURING THE FOLLOWING TWO YEARS. PUPILS INTERVIEWED AN OUTSTANDING CHILDREN'S WRITER, ESTABLISHED CONTACTS WITH CHILDREN ON INDIAN RESERVATIONS AND COMMUNICATED WITH WEATHER STATIONS AROUND THE WORLD, WHILE A TEACHER DISCUSSED HER STUDY ON AFRICA WITH TEACHERS WORKING ON THAT CONTINENT. AMATEUR RADIO PERMITS LEARNERS TO TAP PRIMARY RESOURCES IN MOMENTS. MATERIAL DISCUSSED IN CLASS CAN BE INSTANTLY VERIFIED AND THUS TAKES ON AN IMMEDIATE REALITY. A CHILD CAN COMPARE HIS PARTICULAR SITUATION WITH THOSE OF CHILDREN IN OTHER CULTURES. HE LEARNS EFFECTIVE COMMUNICATION SKILLS IN PRACTICE AND OFTEN HE IS MOTIVATED TO CARRY OUT RESEARCH. KLUGMAN STRESSES THE NECESSITY OF OBTAINING THIRD PARTY TRAFFIC WAIVERS AND CALLS FOR THE ESTABLISHMENT OF AN INTERNATIONAL EDUCATION NETWORK. HE BELIEVES THAT SPEAKERPHONE AMATEUR RADIO TRANSMISSION CAN PROVIDE A MAJOR EDUCATIONAL RESOURCE. 'THE VOICES OF THE WORLD ARE AT THE DOORSTEP OF EVERY CLASSROOM...' WH
- 4018A *** SCHATZ, SHARON
 FACSIMILE TRANSMISSION IN LIBRARIES, A STATE-OF-THE-ART SURVEY
 WASHINGTON, LIBRARY OF CONGRESS. INFORMATION SYSTEMS OFFICE, 1967. 26P. ERIC ED 016 492
 // TELECOPIER XEROX-MACNAFAX-TELECOPIER LDX BIBLIOGRAPHY
 FIVE SYSTEMS, ALL OF WHICH HAVE INVESTIGATED OR ARE INVESTIGATING THE USES OF FACSIMILE EQUIPMENT AS APPLIED TO LIBRARIES, ARE SURVEYED. THE EQUIPMENT OF EACH PROJECT, INCLUDING NECESSARY COMMUNICATION LINKS, IS DESCRIBED, AS WELL AS THE RESULTS OF THOSE EXPERIMENTS NOW COMPLETED. IF TELEFACSIMILE IS TO BE USEFUL, A NEED FOR A CHANGE IN SOME INTERLIBRARY LOAN PROCEDURES IS INDICATED. OTHER CONCLUSIONS OF THE STUDY ARE 1) THAT FACSIMILE TRANSMISSION IS TECHNICALLY AND ECONOMICALLY FEASIBLE NOW FOR MANY LIBRARY SYSTEMS, EVEN THOUGH BOUND VOLUMES STILL CANNOT BE HANDLED BY PRESENT EQUIPMENT AND 2) THAT CURRENT DEVELOPMENTS AND PLANNING BY MANUFACTURERS WILL MAKE FACSIMILE TRANSMISSION EVEN MORE SATISFACTORY IN THE FUTURE. AN EXTENSIVE BIBLIOGRAPHY OF 56 ITEMS ABOUT FACSIMILE TRANSMISSION IS GIVEN. (CM) ERIC

RECID INDEX

- 4019A *** 4019A
- FINAL REPORT OF TWO INTER-INSTITUTIONAL PROGRAMS UTILIZING AMPLIFIED TELEPHONE COMMUNICATION
COLUMBIA, MISSOURI, STEPHENS COLLEGE, 1966. 26P. ERIC ED 012 621
- // COLUMBIA MISSOURI STEPHENS-COLLEGE HIGHER-ED AMERICAN-LITERATURE MATHEMATICS
EVALUATION-SUBJECTIVE ELECTROWRITER
- STEPHENS COLLEGE USED SEVERAL NEW INSTRUCTIONAL DEVICES IN INTRODUCING TWO INTERINSTITUTIONAL
COURSES. THE UNDERGRADUATE COURSE, 'AMERICAN LIFE AS SEEN BY CONTEMPORARY WRITERS,'
SUPPLEMENTED DISCUSSION SESSIONS WITH POETRY READINGS ON AUDIO TAPES AND LECTURES VIA
AMPLIFIED, LIVE TELEPHONE COMMUNICATION. THE LATTER DEVICE ALSO MADE POSSIBLE CONVERSATION
BETWEEN PROMINENT LITERARY FIGURES AND STUDENTS AT ALL THE PARTICIPATING COLLEGES. STUDENTS
EVALUATING THE GENERALLY VERY SUCCESSFUL COURSE EXPRESSED A DESIRE FOR MORE DEPTH AND LESS
BREATH IN INSTRUCTIONAL APPROACH. THE COURSE, 'NEW APPROACHES TO THE TEACHING OF
MATHEMATICS,' EMPLOYED THE ELECTROWRITER, AN INSTRUMENT THAT TRANSMITS WRITTEN IMAGES OVER
TELEPHONE CABLES. THE COURSE WAS SUCCESSFUL, BUT THE ELECTROWRITER PRESENTED OCCASIONAL
TECHNICAL PROBLEMS. SOME STUDENTS EXPRESSED A DESIRE FOR MORE UNITY IN THE COURSE MATERIAL.
(AD). ERIC
- 4020A *** JCLLY, JCAN * MADDEN, CHARLES F. 4020A
- AMPLIFIED TELEPHONE AS A TEACHING MEDIUM
- COLUMBIA, MISSOURI, STEPHENS COLLEGE REPORT NUMBER SC-EDUC-REP-1, MARCH 1965. 95P. ERIC ED 012
620
- // MISSOURI STEPHENS-COLLEGE HIGHER-ED COURSE-ENRICHMENT INTERUNIVERSITY-COOPERATION
CURRENT-EVENTS CONTEMPORARY-LITERATURE TEACHER-ED
- A GRANT TOTALING 58,400 DOLLARS FROM THE FUND FOR THE ADVANCEMENT OF EDUCATION ENABLED STEPHENS
COLLEGE TO INITIATE AN EXPERIMENTAL EDUCATIONAL PROGRAM BY WHICH AMPLIFIED TELEPHONE
COMMUNICATION BROUGHT HIGH-QUALITY INSTRUCTION TO GROUPS OF SMALL LIBERAL ARTS COLLEGES. A
'MASTER TEACHER' ORGANIZED AND PRESENTED THE BASIC MATERIALS OF THE COURSE. PERSONS OF
NATIONAL AND INTERNATIONAL REPUTATION SPOKE TO THE CLASSES VIA TELEPHONE CONFERENCE NETWORKS ON
SUBJECTS RELEVANT TO THE COURSE WORK. A LOCAL COORDINATOR AND TECHNICAL DIRECTOR ON EACH
CAMPUS WORKED ON THE PROJECT WITH THE COORDINATOR AT STEPHENS. A TEACHER AT EACH COLLEGE OR
UNIVERSITY WAS PRESENT IN CLASS DURING THE LECTURES. ONE COURSE FOR FACULTY MEMBERS (A SEMINAR
IN SCIENCE) AND TWO COURSES FOR STUDENTS (A COURSE IN CONTEMPORARY SOCIAL ISSUES AND A COURSE
IN CONTEMPORARY LITERATURE) WERE ALL SUCCESSFUL IN SPITE OF SOME TECHNICAL PROBLEMS. (AD).
ERIC
- 4021A *** 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, 1968. 42P. ERIC ED 022 758
- // EVALUATION-CONTROL-GROUP
- TELEPHONE INTERVIEWS DESIGNED TO ELICIT OPEN-ENDED RESPONSES FROM DISADVANTAGED KINDERGARTEN
CHILDREN WERE TAPED, ANALYZED, AND SCORED TO TEST THE RELIABILITY OF THIS INTERVIEW TECHNIQUE
IN OBTAINING REPRESENTATIVE SPEECH SAMPLES. TO DETERMINE THE EFFECT OF FAMILIARITY WITH
TELEPHONES, ONE GROUP OF 12 CHILDREN WAS PROVIDED WITH TELEPHONES IN THE CLASSROOM IMMEDIATELY
FOLLOWING AN INITIAL INTERVIEW. ANOTHER GROUP OF 13 WAS GIVEN TELEPHONES FOLLOWING A SECOND
INTERVIEW 3 MONTHS LATER. A THIRD GROUP OF EIGHT CHILDREN WAS INTERVIEWED ONCE BUT GIVEN NO
ADDITIONAL EXPOSURE TO THE TELEPHONE. FINALLY, ALL THREE GROUPS WERE INTERVIEWED AT THE END OF
AN 8-MONTH PERIOD. RESULTS INDICATED THAT THE TELEPHONE INTERVIEW IS A RELIABLE TECHNIQUE FOR
RECORDING REPRESENTATIVE SPEECH SAMPLES FROM YOUNG CHILDREN AND HAS APPLICATION TO LONGITUDINAL
STUDIES IN WHICH CHANGES IN VERBAL BEHAVIOR CAN BE ANALYZED IN TERMS OF VOCABULARY LEVEL,
LANGUAGE STRUCTURE, AND ARTICULATION. NO SIGNIFICANT DIFFERENCES WERE FOUND IN A COMPARISON OF
THE THREE GROUPS, SUGGESTING THAT EXPOSURE TO TELEPHONES IN THE CLASSROOM DID NOT STRONGLY
INFLUENCE THE CHILD'S PERFORMANCE IN THE TELEPHONE INTERVIEW. THAT THIS 'EXPOSURE' TO THE
TELEPHONE WAS ESSENTIALLY UNSTRUCTURED AND THAT THE CHILDREN IN THE STUDY WERE SIMILAR TO EACH
OTHER SHOULD BE CONSIDERED. (DL). ERIC
- 4022A *** TUCKER, THOMAS T. (AND OTHERS) 4022A
- SEMINAR BY AMPLIFIED TELEPHONE, A REPORT AND EVALUATION
- RENO, NEVADA UNIVERSITY. NEVADA WESTERN STATES SMALL SCHOOLS PROJECT. CARSON CITY, 1968. 14P.
ERIC ED 025 360
- // WESTERN-STATES-SMALL-SCHOOLS-PROJECT NEVADA-UNIV INSERVICE-ED TEACHER-ED EVALUATION
- A PILOT PROGRAM IS OUTLINED WHICH EXPLORED ONE POSSIBLE WAY BY WHICH TEACHERS IN SMALL SCHOOLS
MIGHT HAVE ACCESS TO QUALITY IN-SERVICE EDUCATION. THE USE OF THE AMPLIFIED TELEPHONE AND THE
CONFERENCE BRIDGE TECHNIQUE IS DESCRIBED. A GENERAL DESCRIPTION OF THE COURSE (A COOPERATIVE
EFFORT OF THE WESTERN STATES SMALL SCHOOLS PROJECT AND THE UNIVERSITY OF NEVADA) IS PRESENTED,
INCLUDING CONTENT, REQUIREMENTS, AND METHOD. AN EVALUATION OF THE COURSE CONSIDERS CONTENT,
METHOD OF PRESENTATION, ON-SITE SITUATIONS, AND PARTICIPANT COMMENTS. CONCLUSIONS AND
RECOMMENDATIONS FOR IMPROVING THE PROGRAM COMPLETE THE DOCUMENT. (SW). SEE 4023, 4519 AND
4715. ERIC

RECID INDEX

4023A *** JESSER, DAVID L. * CLARKE, MICHAEL J. 4023A

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

4029C *** 4029C

RADIO LISTENING EDUCATIONAL STYLE

PRINTER'S INK 292, P55, MAY 27, 1966

// CORRESPONDENCE-ED HOME-STUDY PROGRAMED-INSTRUCTION PROGRAMING INTERACTIVE-FM-RADIO
FM-RADIO MULTIPLEXING EDUCASTING-SYSTEMS-INC 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 PROGRAMED BY INTERNATIONAL CORRESPONDENCE SCHOOLS OF SCRANTON, PENNSYLVANIA. EVERY SO OFTEN IN THE COURSE OF INSTRUCTION A MULTIPLE-CHOICE QUESTION IS ASKED. THE STUDENT INDICATES HIS ANSWER BY PRESSING ONE OF FOUR BUTTONS ON HIS EDUCASTING RECEIVER UNIT. IF HE IS RIGHT, THE REASONING BEHIND THE CORRECT ANSWER IS EXPLAINED. IF HE IS WRONG, HIS MISTAKE IS EXPLAINED, THE CORRECT ANSWER IS GIVEN AND THE REASONING BEHIND IT. THE FM CARRIER IS MULTIPLEXED WITH FOUR SPECIAL CHANNELS WHICH CANNOT BE INTERCEPTED BY A STANDARD AM OR FM RECEIVER. UNITS CAN BE OPERATED WITHIN 30 MILES OF TRANSMITTER. SOURCE OF PROGRAMS WILL BE A FOUR-TRACK TEACHING TAPE WHICH FEEDS SIGNALS TO A FOUR-CHANNEL MODULATOR LINKED TO THE FM TRANSMITTER. THE SPECIAL RECEIVER WAS DESIGNED AND MANUFACTURED BY THE COMMERCIAL ELECTRONICS DIVISION OF SYLVANIA ELECTRIC PRODUCTS INC. FULL ARTICLE EDITED SLIGHTLY FOR LENGTH BY KS

4030 *** 4030

RELAYS FOR EVERY APPLICATION SHOWN

BROADCASTING 70, Q3-4, APRIL 11, 1966

4047C *** 4047C

OHIO MEDICAL EDUCATION NETWORK 1969-1970

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

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

CONCEIVED IN 1961, 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 DOCTORS ON SUBJECTS VITAL TO CONTINUING MEDICAL EDUCATION. ACTIVITIES HAVE BEEN BROADENED TO INCLUDE NURSING TOPICS AND THE USE OF TELEVISION. DM

4048 *** NELSON, WILLIAM P. * WOOLSEY, FRANK M., JR. 4048

THREE YEARS EXPERIENCE WITH TWO-WAY RADIO CONFERENCES

NEW YORK STATE JOURNAL OF MEDICINE 58,20, P3322-5, OCT 15, 1958

4049 *** WOOLSEY, FRANK M., JR. 4049

TWO YEARS OF EXPERIENCE WITH TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION

JOURNAL OF MEDICAL EDUCATION 33,6, P474-82, JUNE 1958

REC'D INDEX

- 4051C *** WOOLSEY, FRANK M., JR. 4051C
- 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 TRANSMITTER ATOP THE HIGHEST MOUNTAIN IN MASSACHUSETTS. TOPICS ARE ANNOUNCED IN ADVANCE AND PROGRAMS ARE AIRED 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 VARIED FORMATS HAVE BEEN USED, PROGRAMS GENERALLY CONSIST OF A 20-MINUTE TOPIC REVIEW FOLLOWED BY A 40-MINUTE DISCUSSION. THE EXISTENCE OF FOUR TRANSMITTERS ALLOWS PARTICIPATION BY THE FACULTY OF SIX DIFFERENT MEDICAL SCHOOLS, ALBANY, HARVARD, BOSTON UNIVERSITY, TUFTS, YALE, AND THE VERMONT COLLEGE OF MEDICINE. VISUAL AIDS AND PRINTED HANDOUTS ARE USED TO SUPPLEMENT THE TELECONFERENCES. THE PROGRAM HAS BEEN VERY POPULAR WITH PHYSICIANS, SINCE IT HAS MANY ADVANTAGES OVER STANDARD POSTGRADUATE EDUCATION PROGRAMS, INCLUDING THE ANONYMITY OF PARTICIPANTS. THE AUTHOR CONCLUDES BY DISCUSSING THE POTENTIAL OF SIMILAR PROGRAMS, INCLUDING AN EXAMINATION OF COST FACTORS. SEE 0542 AND 4924. FK
- 4052 *** EBBERT, ARTHUR JR. 4052
- TWO-WAY RADIO IN MEDICAL EDUCATION
- THE JOURNAL OF MEDICAL EDUCATION 38,4, P319-28, APRIL 1963
- 4054C *** VICTOR COMPTOMETER CORPORATION 4054C
- IOWA TEACHERS LEARN MATH VIA VERB
- VICTOR COMPTOMETER CORPORATION. BROCHURE. RECEIVED JAN 1970
- // NORTHWEST-IOWA-TELEWRITER-PROJECT CEDAR-FALLS STATE-COLLEGE-OF-IOWA CHICAGO URBANA ILLINOIS-UNIV INSERVICE-ED TEACHER-ED ELECTROWRITER
- IN THE WINTER OF 1965, THE NORTHWEST IOWA ELECTROWRITER PROJECT USED VICTOR'S ELECTROWRITER REMOTE BLACKBOARD (VERB) TO INSTRUCT ELEMENTARY AND HIGH SCHOOL TEACHERS IN THE USE OF NEW MATH. LASTING EIGHT WEEKS, THE PROJECT CONNECTED SEVEN IOWA CITIES WITH LECTURERS AT 1) THE ENCYCLOPEDIA BRITANNICA PRESS IN CHICAGO 2) THE UNIVERSITY OF ILLINOIS IN URBANA AND 3) THE STATE COLLEGE OF IOWA IN CEDAR FALLS. ALTHOUGH OTHER ELECTROWRITER PROJECTS HAVE BEEN SIMILARLY CONCERNED WITH EDUCATION, THE USE OF VERB BY GOVERNMENT AND BUSINESS IS ALSO VERY LIKELY. FK
- 4061 *** 4061
- AEROSPACE ENGINEERS ATTEND GRADUATE SCHOOL BY REMOTE CONTROL
- TRAINING IN BUSINESS AND INDUSTRY 5,1, P41, JAN 1968
- 4062C *** 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 15 SCHOOL DISTRICTS WITHIN A 70 MILE RADIUS. THE 'ELECTRONIC BLACKBOARD-BY-WIRE' PROVIDES MATHEMATICS, PHYSICS AND ENGLISH LESSONS AS A SUPPLEMENT TO CONVENTIONAL CLASSROOM TEACHING. TALKBACK FROM PUPILS TO TEACHER IS FACILITATED BY THE PROVISION OF AUDIO UNITS AND QUESTION INDICATORS AT EACH RECEPTION POINT. THE DIRECTOR OF THE CATE CENTER POINTS OUT THE BENEFITS OF SUCH A SYSTEM FOR SCHOOLS WHICH LACK THE BEST RESOURCES. 'THE EFFECT IS AN EXPANDED CURRICULUM DELIVERED BY THE MOST COMPETENT TEACHERS AVAILABLE.' WH
- 4063C *** 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 SUBSIDIARIES, SYLVANIA ELECTRIC PRODUCTS, INC. AND THE GENERAL TELEPHONE COMPANY OF KENTUCKY. MUCH MORE ECONOMICAL THAN CLOSED CIRCUIT TV, THE BLACKBOARD-BY-WIRE SYSTEM CONTAINS AN AUDIO FEEDBACK UNIT FOR STUDENTS' QUESTIONS AND RESPONSES. FK
- 4064 *** MEYER, THOMAS C. 4064
- EVALUATION OF THE EFFECTIVENESS OF THE TELEPHONE CONFERENCE AS A METHOD OF POST-GRADUATE MEDICAL EDUCATION
- JOURNAL OF MEDICAL EDUCATION 42,9, P874, SEPT 1967

RECID INDEX

- 4065C *** PAULSON, ROBERT L. 4065C
- TEL-A-LECTURE TECHNIQUE
- EDUCATIONAL SCREEN AND AUDIOVISUAL GUIDE 42,6, P316-7, JUNE 1963
- // 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 AMPLIFIER HOOKED TO A TELEPHONE WHILE THE LECTURER, WHO MAY BE MILES AWAY, COMMENTS ON PROBLEMS, FILM CLIPS, AND OTHER SUITABLE MATERIAL. THIS RESEARCH PROJECT HAS BEEN UNDERTAKEN BY THE MALCOLM PRICE LABORATORY. ALTHOUGH RESEARCH IS IN THE EARLY EXPLORATORY STAGE, SEVERAL PRINCIPLES ARE ALREADY EVIDENT. SOME OF THESE ARE 1) THE NOVELTY OF THE DEVICE CREATES INTEREST THAT OFFSETS THE LACK OF A PERSONAL APPEARANCE BY A SPEAKER 2) THE MOST EFFECTIVE PART OF SUCH A PROGRAM IS THE QUESTION AND ANSWER PERIOD 3) PRESENTATION OF CONFERENCE CALL PROGRAMS ARE VERY WELL ADAPTED TO THIS DEVICE 4) VISUAL MATERIALS ARE OF EXTREME IMPORTANCE IN PRESENTATION AND 5) SAVINGS OF TIME AND MONEY ARE FACTORS THAT CANNOT BE IGNORED IN THE CASE OF THIS DEVICE. TM
- 4067C *** 4067C
- TELELECTURE
- BELL TELEPHONE COMPANY. 28P
- // 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, COMMUNICATIONS REQUIREMENTS, AND ADVANTAGES OF THE METHOD. TM
- 4068 *** WOLSEY, FRANK M., JR. 4068
- TWO-WAY RADIO AND ITS ADVANTAGES
- ANNALS OF THE NEW YORK ACADEMY OF SCIENCE 142,2, P424-7, MARCH 31, 1967
- 4110A *** 4110A
- ELEMENTARY TEACHERS RECEIVE IN-SERVICE INSTRUCTION VIA 'TELELECTURE'
- ABSTRACT ON PAGE 6 IN COMMITTEE ON INSTITUTIONAL COOPERATION. COMMITTEE ON RESEARCH AND DEVELOPMENT OF INSTRUCTIONAL RESOURCES. ABSTRACTS OF INSTRUCTIONAL DEVELOPMENTS AT CIC INSTITUTIONS. REPORT NO. 1, SPRING 1966
- // NORTHWEST-IOWA-TELEWRITER-PROJECT IOWA-UNIV TEACHER-ED MATHEMATICS ELECTROWRITER EVALUATION
- * INFORMATION IS AVAILABLE FROM THE COLLEGE OF EDUCATION, UNIVERSITY OF IOWA, CONCERNING THE NORTHWEST IOWA TELEWRITER PROJECT, AN INSERVICE TRAINING PROGRAM FOR TEACHERS OF MATHEMATICS IN THE ELEMENTARY SCHOOLS. INSTRUCTION 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 *** 4111A
- 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 TECHNICAL CONTROL. THROUGH DIRECT RECEPTION FROM WOSU-FM OR THROUGH OTHER FM STATIONS CONNECTED BY LAND LINES FROM WOSU-FM, GROUPS OF EDUCATORS IN 24 SCHOOL DISTRICTS HEAR A PRESENTATION ON AN IMPORTANT EDUCATIONAL TOPIC. AT THE CONCLUSION OF THIS INITIAL DISCUSSION, IT IS POSSIBLE THROUGH A SYSTEM OF INTERCONNECTING LAND LINES FOR QUESTIONS TO BE DIRECTED TO THE SPEAKER IN THE STUDIO AT WOSU-FM. ALL SCHOOLS ON THE NETWORK HEAR THE QUESTIONS AND THE DISCUSSION WHICH MAY FOLLOW. PRESENT LIMITATIONS REQUIRE THAT A MAXIMUM OF 12 SCHOOLS PARTICIPATE ON ANY GIVEN BROADCAST. CONSEQUENTLY, TWO NETWORKS ARE REQUIRED TO PROVIDE SERVICE TO THE PARTICIPATING SCHOOLS. ONE NETWORK IS LOCATED IN NORTHWESTERN OHIO AND THE SECOND ONE SERVES SCHOOLS CLUSTERED IN THE CENTER OF THE STATE. THE TOPICS FOR DISCUSSION ON THE RADIO-TELEPHONE NETWORK HAVE BEEN CHOSEN BY SCHOOL ADMINISTRATORS OR THEIR REPRESENTATIVES AND THUS CONSTITUTE THE NEEDS OF SCHOOL PEOPLE AS SEEN BY THOSE WHO DAILY MUST MEET INSTRUCTIONAL PROBLEMS IN THE FIELD. FOR FURTHER INFORMATION, CONTACT PROFESSOR WILLIAM B. MCBRIDE, ASSISTANT DEAN, COLLEGE OF EDUCATION, OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210.' CIC

REC'D INDEX

4112A

4112A

UNDERGRADUATE DIAL-ACCESS LEARNING SYSTEM

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

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

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

4113A

4113A

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

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

EXTENSION CAMPUSES POSE PROBLEMS OF INSTRUCTIONAL COORDINATION AND THE SHARING OF INSTRUCTIONAL RESOURCES THAT ARE DIFFICULT TO SOLVE. RECOGNIZING THIS, PURDUE UNIVERSITY HAS UNDERTAKEN TO EXAMINE IN DEPTH ITS INSTRUCTIONAL COMMUNICATION NEEDS OF THE FORESEEABLE FUTURE. WORKING WITH AN OUTSIDE FIRM WHICH HAS LONG EXPERIENCE IN THE DESIGN AND DEVELOPMENT OF COMMUNICATIONS SYSTEMS, UNIVERSITY REPRESENTATIVES HAVE TRACED PAST GROWTH IN ENROLLMENTS, INSTRUCTIONAL TELEVISION, EXTENSION 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 MICROWAVE TO ITS EXTENSION CAMPUS IN INDIANAPOLIS. THIS LINK EXTENDS TO THE BLOOMINGTON CAMPUS OF INDIANA UNIVERSITY, THUS PROVIDING INTER-UNIVERSITY SHARING OF RESOURCES, AS WELL AS THE LINKING OF INDIANA UNIVERSITY WITH ITS OWN INDIANAPOLIS EXTENSION CAMPUS. NOW, PLANS ARE BEING MADE 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, COLLEQUIA, AND OTHER EVENTS OCCURRING ON EITHER OF THE TWO PRINCIPAL CAMPUSES. FOR MORE INFORMATION, CONTACT JAMES S. MILES, DIRECTOR OF THE TELEVISION UNIT, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907. CIC. EDITED FOR LENGTH BY KS

4114A

4114A

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 WRIGHT-PATTERSON-GRADUATE-CENTER GRADUATE-ED TV

A TV LINK WITH A TWO-WAY AUDIO CHANNEL HAS BEEN ESTABLISHED BETWEEN OHIO STATE'S CENTRAL CAMPUS IN COLUMBUS AND THE WRIGHT-PATTERSON GRADUATE CENTER AT DAYTON. PREVIOUSLY, ALL INSTRUCTION AT WRIGHT-PATTERSON WAS CONDUCTED BY TRAVELING FACULTY FROM THE CENTRAL CAMPUS. GRADUATE COURSES REGULARLY OFFERED WERE INTRODUCED 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 TURRET SO THAT THE PROFESSOR MAY SELECT ANY ONE OF SEVERAL BLACKBOARD PANELS FOR TRANSMISSION. A TWO-WAY AUDIO CHANNEL ALLOWS THE STUDENT AT DAYTON THE SAME PRIVILEGE (SIC) OF INTERRUPTION WITH QUESTION OR COMMENT THAT HE WOULD 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. COWAN, DEPARTMENT OF ELECTRICAL ENGINEERING, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43210. CIC

4115A

4115A

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 MEDIA SPECIALIST. SINCE A GREAT DEAL OF THE INSTRUCTIONAL MATERIAL IN A CLASSIFICATION AND CATALOGUING COURSE IS VISUAL, THE 2 BY 2 SLIDE MEDIUM WAS SELECTED. SLIDES ARE MAILED TO A PROJECTOR 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 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 AND NAMES 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 PROJECTOR 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 FORMAL 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 MRS. ANNE FOX OF THE GRADUATE SCHOOL OF LIBRARY SCIENCE AT THE UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.' CIC. EDITED FOR LENGTH BY KS

4116A

4116A

DIAL-ACCESS VIDEO AND AUDIO LEARNING SYSTEM

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

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

4119A

4119A

CONTINUING EDUCATION IN PHARMACY VIA TELECOMMUNICATIONS NETWORK

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

// INDIANA-UNIV PURDUE-UNIV BUTLER-UNIV INDIANA-PHARMACEUTICAL-ASSOC CONTINUING-ED CURRENT-AWARENESS PHARMACEUTICALS TV

*AS OF SPRING 1968, INDIANA'S STATE TELECOMMUNICATIONS NETWORK IN HIGHER EDUCATION IS PROVIDING AN ANNUAL SHORT COURSE-SEMINAR SERIES FOR THE STATE'S PHARMACISTS. THE COURSE IS A JOINT ENTERPRISE OF PURDUE'S SCHOOL OF PHARMACY AND PHARMACAL SCIENCES, BUTLER UNIVERSITY'S COLLEGE OF PHARMACY, AND THE INDIANA PHARMACEUTICAL ASSOCIATION, AND INCLUDES FIVE MONTHLY MEETINGS, EACH 90 MINUTES LONG. THE SERIES UNDERTAKES TO UPDATE THE COMPETENCIES OF PRACTICING PHARMACISTS IN SUCH AREAS AS ADVERSE DRUG REACTIONS AND INTERACTIONS, THE PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM, THE ETIOLOGY OF CARDIAC AND VASCULAR DISEASE, AND THE PHARMACOLOGY OF CERTAIN THERAPEUTIC AGENTS. EACH SESSION EMPLOYS TELEVISION AND MAKES USE OF FACULTY FROM THE TWO SCHOOLS OF PHARMACY AND SPECIALISTS FROM INDUSTRY AND MEDICINE. PARTICIPATING PHARMACISTS PAY A NOMINAL FEE AND MAY ATTEND THE SERIES AT ANY OF EIGHT VIEWING CENTERS, RANGING FROM INDIANA UNIVERSITY'S BLOOMINGTON CAMPUS AND INDIANA STATE UNIVERSITY-EVANSVILLE IN THE SOUTH, TO PURDUE'S CALUMET REGIONAL CAMPUS IN HAMMOND OR THE PURDUE-INDIANA UNIVERSITY JOINT REGIONAL CAMPUS AT FORT WAYNE IN THE NORTH. THROUGH THE TWO-WAY TELEPHONE SYSTEM, WHICH IS PART OF THE STATE NETWORK, DISCUSSIONS AND QUESTION-ANSWER PERIODS ARE INCORPORATED INTO EACH SEMINAR SESSION. DURING 1968, THE INTRODUCTORY YEAR OF THE SERIES, 439 PHARMACISTS OR 15 PERCENT OF THE STATE'S PRACTICING PHARMACISTS ENROLLED. FOR FURTHER INFORMATION, CONTACT BILL D. JOBE, ADMINISTRATIVE ASSISTANT FOR CONTINUING EDUCATION, SCHOOL OF PHARMACY AND PHARMACAL SCIENCES, PURDUE UNIVERSITY, LAFAYETTE, INDIANA 47907.' CIC

REC'D INDEX

4120A

4120A

MULTIMEDIA INSTRUCTION IN EXTENSION

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

// ILLINOIS-UNIV UNIVEX HIGHER-ED CURRICULUM-ENRICHMENT AGRICULTURE COMPUTER-SCIENCE GRADUATE-ED LIBRARY-SCIENCE CORRESPONDENCE-ED CONTINUING-ED ENGINEERING ELECTROWRITER

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

4121C

4121C

RADIO MEDICAL ASSISTANCE AND RESCUE

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

// MEDITERRANEAN-ISLANDS REMOTE-DIAGNOSIS SEA-RESCUE CIRM

'THE INTERNATIONAL RADIO MEDICAL CENTER (CIRM) 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 ORGANIZE WITH THE HELP OF ITALIAN AND FOREIGN ORGANIZATIONS A VAST NETWORK OF INTERNATIONAL TELECOMMUNICATIONS THAT ALLOWS IT TO GIVE ASSISTANCE IN ANY PART OF THE OCEAN. ALL RADIO MEDICAL SERVICES OF CIRM, AS WELL AS TRANSPORT AND RESCUE, ARE FREE OF CHARGE.' DW

4123C

*** FARPER, SEYMOUR M.

4123C

MEDICAL RADIO CONFERENCES

CALIFORNIA MEDICINE 104, P141, FEB 1966

// SAN-FRANCISCO CALIFORNIA-UNIV-SCHOOL-OF-MEDICINE MEDICAL-ED POSTGRADUATE-ED LEARNING-CENTER DISSEMINATION-OF-INFORMATION

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

4126A

*** SMITH, PATRICIA MARIE

4126A

EXPERIMENTATION TO DETERMINE THE FEASIBILITY OF REMOTE SUPERVISION OF STUDENT TEACHERS

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

// TEACHER-ED HOME-ECONOMICS EVALUATION-CONTROL-GROUP COST

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

RECID INDEX

4128A

PLANNING A SUPPLEMENTARY EDUCATIONAL CENTER AND FOR CONTINUING SERVICES WITH PILOT PROJECTS AND OPERATIONAL PROGRAMS FOR WESTERN SOUTH-DAKOTA

RAPID CITY, SOUTH DAKOTA, DOUGLAS INDEPENDENT SCHOOL DISTRICT 3. PROJECT NUMBER DPSC-66-2221, 146P. PACE ES 000 656

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

A CENTER WILL BE PLANNED AND FIVE PROJECTS CONDUCTED TO SERVE STUDENTS FROM 17 COUNTIES. ONE PROJECT WILL INVOLVE PLANNING A DATA-PROCESSING REPORTING SYSTEM TO EXCHANGE AND COMPARE PERFORMANCE DATA AMONG 19 SCHOOL DISTRICTS. EACH DISTRICT WILL BE CONNECTED TO A CENTRAL COMPUTER WHERE MANAGEMENT AND STUDENT RECORDS WILL BE STORED. LONG-RANGE PLANS INCLUDE SUCH POSSIBILITIES AS MASTER SCHEDULING AND PROGRAMED INSTRUCTION. THE SECOND PROGRAM INVOLVES A TELEPHONE COMMUNICATION SYSTEM FOR GROUP AND INDIVIDUAL CONFERENCE PURPOSES. A TOUCH-TONE TYPE TELEPHONE WILL BE INSTALLED IN EACH OF 18 SCHOOL DISTRICTS TO IMPROVE COMMUNICATIONS AND MAKE MORE EFFECTIVE USE OF TIME BY SCHOOL PERSONNEL. THE THIRD PROJECT WILL BE A TUMBLING AND GYMNASTICS PROGRAM FOR GRADES 1-12 IN A CITY SCHOOL SYSTEM TO IMPROVE MOTOR SKILLS, TEACH BALANCE AND COORDINATION, IMPROVE STRENGTH, GRACE, AND POISE, AND IMPROVE PHYSICAL FITNESS. PROJECT FOUR WILL INVOLVE A MOBILE REMEDIAL READING CLASSROOM - STAFFED WITH A REMEDIAL READING TEACHER - WHICH WILL VISIT EACH OF 21 SCHOOLS 12 TIMES PER MONTH. THE FIFTH PROJECT INVOLVES INSERVICE TRAINING, INCLUDING A FORMAL TRAINING PROGRAM FOR COUNTY SUPERINTENDENTS AND A BASIC SKILLS WORKSHOP FOR TEACHERS. APPROXIMATELY 45,706 STUDENTS WILL BE SERVED. (JE). PACE

4128A

4129A

CARBON-COUNTY COORDINATED INSTRUCTION CENTER

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

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

AN INSTRUCTIONAL CENTER AND AUDIOVISUAL LIBRARY WILL BE ESTABLISHED TO SERVE 10 PUBLIC SCHOOL DISTRICTS AND ONE PRIVATE SCHOOL IN THE COUNTY. THE CENTER WILL BE EQUIPPED WITH RECEIVING AND TRANSMITTING UNITS FOR AN ELECTROWRITER REMOTE BLACKBOARD SYSTEM. RECEIVING AND TRANSMITTING UNITS FOR THE ELECTROWRITER WILL ALSO BE INSTALLED AT THE STATE UNIVERSITY IN ANOTHER COUNTY AND LINKED TO THE CENTER. IN ADDITION, EACH OF THE SIX HIGH SCHOOLS IN THE COUNTY WILL BE EQUIPPED WITH RECEIVING UNITS LINKED TO THE CENTER. THE ELECTROWRITER WILL BE USED FOR A GUEST LECTURE SERIES, CLASSROOM LECTURES, AND EXTENSION COURSES FOR TEACHERS, CONDUCTED BY UNIVERSITY FACULTY MEMBERS AND TRANSMITTED FROM THE UNIVERSITY. PROGRAMS INVOLVING GUEST LECTURERS AND TEAM TEACHERS WILL ALSO BE PRODUCED LOCALLY. THE ELECTROWRITER--OR TELELECTURE--SYSTEM ALLOWS FOR BOTH ORAL AND VISUAL CONTACT BETWEEN THE LECTURER AND LARGE OR SMALL CLASSES THAT MAY BE SCATTERED OVER A LARGE AREA. ORAL CONTACT IS PROVIDED VIA TELEPHONE. A VISUAL IMAGE IS TRANSMITTED OVER A TELEPHONE WIRE, RECEIVED BY THE ELECTROWRITER RECEIVER, AND PROJECTED ON A MOVIE SCREEN. THE LECTURER CAN TRANSMIT SKETCHES, DIAGRAMS, AND MAPS. THE ELECTROWRITER SYSTEM WILL MAKE IT POSSIBLE TO PRESENT ADVANCED PLACEMENT OR SPECIAL-INTEREST CLASSES NOT OFFERED IN THE REGULAR CURRICULUM IN EACH SCHOOL BECAUSE OF SMALL ENROLLMENTS AND LIMITED FINANCES. APPROXIMATELY 4,090 ELEMENTARY AND SECONDARY STUDENTS WILL BE SERVED. (JE) PACE

4129A

4130A

SPECIAL EDUCATION SERVICE CENTER

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

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

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

4130A

4131C

*** HELDRICH, F.J., JR.

MEDIC, A COOPERATIVE VENTURE IN CONTINUING MEDICAL EDUCATION

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

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

SINCE A STATEWIDE EDUCATIONAL TELEVISION NETWORK WAS NOT AVAILABLE AND FM RADIO APPEARED PROHIBITIVELY EXPENSIVE, COMMUNITY HOSPITALS IN MARYLAND WERE LINKED BY TELEPHONE IN OCTOBER, 1965 *...FOR THE PURPOSE OF DISSEMINATING PROGRAMS OF MEDICAL INTEREST AMONG MARYLAND PHYSICIANS.* PARTICIPANTS IN VARIOUS CONVENIENT LOCATIONS CAN LISTEN TO THE SIMULTANEOUS TRANSMISSION OF MATERIAL AND SPEAK OVER THE NETWORK. FURTHERMORE, SLIDES AND OTHER SUPPLEMENTARY MATERIAL ARE DUPLICATED AND DISTRIBUTED BY MAIL BEFORE EACH PROGRAM AND USED IN CONJUNCTION WITH THE AUDIO TRANSMISSION. THIS SYSTEM FACILITATES THE RAPID SHARING OF MEDICAL AND PARAMEDICAL PROGRAMS AND IS ESPECIALLY BENEFICIAL TO THOSE HOSPITALS WITH LIMITED RESOURCES. THE PROJECT HAS BEEN FINANCED BY THE HOSPITALS, THE STATE HEALTH DEPARTMENT AND THE PHYSICIANS' STATE ORGANIZATION, WITH THE PHYSICIANS RETAINING OVERALL CONTROL. PRESENTLY MEDIC PROGRAMS ARE EVALUATED BY MEANS OF TABULATION OF PHYSICIANS ATTENDING AND THEIR COMMENTS AND CRITICISMS. IN 18 MONTHS THE MEDIC NETWORK HAS GROWN CONSIDERABLY AND NOW INVOLVES 30 GENERAL HOSPITALS OUT OF THE 44 IN THE STATE. PROVISIONS ARE BEING MADE TO TAPE RECORD AND STORE THE TELECONFERENCE PROGRAMS FOR FUTURE REFERENCE AND USE BY A WIDER AUDIENCE. HELDRICH HOPES FOR THE EXPANSION OF MEDIC TO INCORPORATE THE USE OF TELEVISION. WH

4131C

4132C

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

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

JOURNAL OF MEDICAL EDUCATION 43,1, P73-7, JAN 1968

4132C

REC'D INDEX

- 4133C *** HORNBACK, MAY S. * BRUNCLIK, HELEN L. 4133C
- PARTY-LINE FOR NURSES
- NURSING CUTLACK 16, P30-1, MAY 1968
- // WISCONSIN-UNIV EXTENSION-UN INSERVICE-ED CONTINUING-ED EVALUATION-QUESTIONNAIRE
VISUAL-AIDS ETN-SCA FM-RADIO
- 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. UTILIZING A TELEPHONE CIRCUIT TO 24 CAMPUS CENTERS, A TRIAL PROGRAM OF 12 LECTURES BEGAN IN FEBRUARY 1966 UNDER THE DIRECTION OF ELIZABETH REGAN AND SIGNE S. COOPER OF THE DEPARTMENT OF NURSING. CLASSES CONSISTED OF A HALF HOUR LECTURE AND A HALF HOUR QUESTION PERIOD. THE LECTURES WERE PRERECORDED TO AVOID UNFORESEEN DIFFICULTIES, AND PRINTED AND VISUAL AIDS WERE MAILED TO 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, INCLUDING SOME WHICH WERE SIMULTANECUSLY HEARD OVER FM STATIONS. THE ARTICLE CONCLUDES WITH AN EXTENSIVE REVIEW OF THE PROGRAM CCSTS. FK
- 4135C *** PACE, WILLIAM G. * SCHWEIKART, ROBERT B. 4135C
- MEDICAL EDUCATION NETWORK
- OHIO STATE MEDICAL JOURNAL 64, P38+, JAN 1968
- // OPEN OHIO PENNSYLVANIA KENTUCKY WEST-VIRGINIA REGIONAL-MEDICAL-NETWORKS CONTINUING-ED
FM-RADIO TV CATV
- THE OHIO MEDICAL EDUCATION NETWORK (OMEN) WAS ESTABLISHED IN 1962 TO FILL THE GROWING NEED TO DISSEMINATE INFORMATION FROM MEDICAL RESEARCH CENTERS TO PHYSICIANS AND PATIENTS AS QUICKLY AS POSSIBLE. PROGRAMS ARE BROADCAST FIVE TIMES WEEKLY OVER A DOZEN FM RADIO STATIONS TO 61 HOSPITALS IN OHIO, PENNSYLVANIA, KENTUCKY AND WEST VIRGINIA. BROADCAST AT NOON, THE ONE-HOUR PROGRAMS ARE 'LIVE,' TWO-WAY DISCUSSIONS BETWEEN HOME-COMMUNITY PHYSICIANS AND MEDICAL SCHOOL TEACHERS ON SUBJECTS VITAL TO CONTINUING MEDICAL EDUCATION. IN 1966 THE PROGRAMMING WAS EXPANDED TO INCLUDE NURSING TOPICS. OPEN-CIRCUIT TV WITH TWO-WAY AUDIO HAS ALSO BEEN USED BY THE OMEN. CM
- 4136C *** SMITH, MARJORIE 4136C
- ANOTHER WAY FOR DOCTORS TO KEEP UP
- MEDICAL ECONOMICS 43, P124-6, APRIL 4, 1966
- // TELE-MED DIAL-ACCESS CURRENT-AWARENESS CONTINUING-ED MEDICAL-ED COST LEASED-LINES
TAPE-RECORD
- TELE-MED IS A COMMERCIAL DIAL-ACCESS SERVICE WHICH PROVIDES PRACTICING DOCTORS ACCESS TO CURRENT MEDICAL INFORMATION. TAPED PROGRAMS INCLUDING MEDICAL NEWS REPORTS, ANNOUNCEMENTS OF MEDICAL MEETINGS, PREVIEWS OF JOURNALS AND INTERVIEWS WITH MEDICAL PERSONALITIES ARE MADE AVAILABLE BY TELEPHONE 24 HOURS A DAY. IRVIN P. SULLS CREATED TELE-MED, WHICH UTILIZES LEASED TELEPHONE LINES AND SERVES 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. FK
- 4137C *** 4137C
- PHYSICAL-THERAPISTS BEGIN LEARNING BY RADIO
- PHYSICAL THERAPY 49, P192, FEB 1969
- // NEW-YORK VERMONT MASSACHUSETTS ALBANY-REGIONAL-MEDICAL-PROGRAM CONTINUING-ED MEDICAL-ED
FM-RADIO
- PHYSICAL THERAPISTS IN 40 HOSPITALS IN THE TRI-STATE (NEW YORK, VERMONT AND MASSACHUSETTS) ALBANY REGIONAL MEDICAL PROGRAM ARE ABLE TO DISCUSS SPECIALIZED PHYSICAL THERAPY TECHNIQUES WITH EACH OTHER AND WITH SPECIALISTS OVER THE TWO-WAY FM RADIO NETWORK OF ALBANY MEDICAL COLLEGE. 'THE ALBANY REGIONAL MEDICAL PROGRAM IS AN EFFORT TO IMPROVE PATIENT CARE BY STIMULATING COOPERATION IN THE MEDICAL COMMUNITY AND BY ACCELERATING DISTRIBUTION OF MEDICAL KNOWLEDGE TO HEALTH AND MEDICAL WORKERS.' LC
- 4138C *** 4138C
- TELEPHONE LECTURES FOR NURSES FUNDED BY NEW-YORK-RMP
- AMERICAN JOURNAL OF NURSING 69, P926+, MAY 1969
- // MEDICAL-ED CONTINUING-ED REGIONAL-MEDICAL-NETWORK
- 'BUFFALO, N.Y. A 955,685 DOLLAR GRANT TO THE REGIONAL MEDICAL PROGRAM FOR WESTERN NEW YORK WILL FINANCE, AMONG OTHER PROJECTS, CONTINUATION OF THE TWO-WAY TELEPHONE LECTURE NETWORK, WHICH PRESENTS TELEPHONE LECTURES FOR NURSES, PHYSICIANS, DENTISTS, PHARMACISTS, AND OTHER HEALTH ALLIED PROFESSIONS AND CORONARY CARE TRAINING PROGRAM FOR PHYSICIANS AND NURSES IN BUFFALO. THE TELEPHONE NETWORK HAS 47 LISTENING POSTS IN HOSPITALS THROUGHOUT THE REGION. IT PROVIDES LECTURES AND CONFERENCES TO A VARIETY OF AUDIENCES VIA THE PRIVATE TELEPHONE LINE. A PROGRAM IN PULMONARY DISEASES IS PLANNED FOR NURSES AND PHYSICIANS. THE ALREADY FUNCTIONING CORONARY CARE TRAINING PROGRAM LAST YEAR PROVIDED 72 NURSES AND 60 PHYSICIANS WITH TRAINING IN THE OPERATION OF CORONARY OR CARDIAC CARE UNITS.' FULL NEWS ITEM QUOTED HERE.

REC'D INDEX

4139C *** 4139C

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

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

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

4140C *** 4140C

NURSES OF NINE CITIES LINKED BY EDUCATIONAL TV INTERCOM
AMERICAN JOURNAL OF NURSING 66, P1702, AUGUST 1966

4141C *** 4141C

GEORGETOWN'S INTERNATIONAL RADIO
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 200:9, P807, MAY 29, 1967

// GEORGETOWN-UNIV EMERGENCY-CONSULTATION MEDICAL-ED CROSS-CULTURAL-ED RADIO-AMATEUR WA3FXJ

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

4142C *** GLYNN, ELIZABETH N. 4142C

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

// SAN-FRANCISCO FRESNO CALIFORNIA CONTINUING-ED MEDICAL-ED EVALUATION-QUESTIONNAIRE COST
FM-RADIO KXQR-FM KPFA-FM

A SERIES OF 24 ONE-HOUR RADIO CONFERENCES FOR NURSES WAS SPONSORED BY THE UNIVERSITY OF CALIFORNIA
CONTINUING EDUCATION IN MEDICINE AND THE HEALTH SCIENCES AND THE SCHOOL OF NURSING DURING THE
ACADEMIC YEAR 1965-66. THE TELECONFERENCES WERE BROADCAST OVER ONE COMMERCIAL STATION (KXQR-FM
- FRESNO) AND ONE EDUCATIONAL STATION (KPFA-FM - BERKELEY). THEY HAD AN ESTIMATED AUDIENCE OF
1300, 400 OF WHOM LISTENED AT ONE OF THE PARTICIPATING HOSPITALS. EACH OF THESE 40
INSTITUTIONS CONTRIBUTED 100 DOLLARS TOWARDS THE ANNUAL EXPENSES AND RECEIVED OUTLINES AND
BIBLIOGRAPHIES BEFORE EACH BROADCAST. AUDIENCE PARTICIPATION WAS ENCOURAGED. TEN HOSPITALS
WERE LINKED TO THE RADIO STUDIO BY TELEPHONE, SO THAT NURSES COULD ASK QUESTIONS DURING THE
BROADCAST. ALL PROGRAMS WERE SUBSEQUENTLY EVALUATED BY QUESTIONNAIRES. REACTIONS TO THE
SERIES PROVED SO FAVORABLE THAT IT WAS CONTINUED DURING THE 1967-68 SCHOOL YEAR. GLYNN
COMMENTS ON THE PROGRAM IN WHICH SHE PARTICIPATED AND NOTES THAT QUESTIONS WERE PRACTICAL AND
FREQUENTLY DEALT WITH CRISIS SITUATIONS. WH

4500C *** ZIMMERMAN, HARRY 4500C

EVALUATION INFERENCE APPLIED TO PROGRAMMING ON AN EDUCATIONAL TELEPHONE NETWORK - A BEGINNING
PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970.
11P. ERIC ED 036 763

// WISCONSIN EXTENSION-UW ETN EVALUATION-FORMAL

A STUDY WAS MADE OF A NONGREDIT HOME ECONOMICS PROGRAM PRESENTED BY THE UNIVERSITY OF WISCONSIN
EXTENSION OVER THE STATEWIDE EDUCATIONAL TELEPHONE NETWORK (ETN). THE STUDY WAS LIMITED TO THE
TOTAL POPULATION INVOLVED IN ONE PROGRAM (54) AND THEIR IMMEDIATE REACTION TO THAT PROGRAM.
METHODOLOGY USED WAS A COMBINATION OF ACTION RESEARCH AND FIELD RESEARCH. THE INSTRUMENT WAS
DEVELOPED AROUND SIX FACTORS, ENVIRONMENT, CONTENT, PROGRAM PROCESS, LECTURER, MODERATOR, AND
TECHNICAL QUALITIES OF THE ETN. VARIABLES CONCERNED WITH THE VARIOUS FACTORS WERE INTERSPERSED
AND RESULTED IN 48 ITEMS PLUS A 9-POINT SCALE FOR AN OVERALL ASSESSMENT OF THE PROGRAM. A
FOUR-POINT INTERVAL SCALE WAS USED WITH EACH OF THE 48 VARIABLES. THE INSTRUMENT WAS
OPEN-ENDED, WITH PROVISION FOR SUGGESTIONS FOR IMPROVEMENT. SUBJECTIVE EVALUATIVE INFERENCE
BASED ON MEANS AND STANDARD DEVIATIONS INDICATED THE OVERALL PROGRAM WAS SOMEWHAT BETTER THAN 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 ASSUME THE ROLE OF GROUP LEADER IN AN ATTEMPT TO BRING ABOUT MORE GROUP INTERACTION.
(AUTH-CR/EP). ERIC

- 4504C *** KING, FRANKLIN J. 4504C
 FEASIBILITY OF INCORPORATING TELELECTURE IN PRESENTING A TEACHING METHODS COURSE TO VOCATIONAL TEACHERS
 COLUMBIA, UNIVERSITY OF MISSOURI, ED.D. THESIS, 1970. 156P. AVAILABLE FROM UNIVERSITY MICROFILMS, INC., ANN ARBOR, MICHIGAN. ERIC ED 042 019
 // INSERVICE-ED TEACHER-ED EVALUATION-CONTROL-GROUP EVALUATION-PRE-AND-POST-TESTING EVALUATION-OTIS-EMPLOYMENT-TEST COST
 TO TEST THE FEASIBILITY OF TEACHING A METHODS COURSE TOTALLY OR PARTIALLY BY TELELECTURE, A CONTROL GROUP OF 15 WAS TAUGHT BY TRADITIONAL LECTURE-DISCUSSION, AN EXPERIMENTAL GROUP OF 15 WAS TAUGHT WITH 50 PERCENT TRADITIONAL AND 50 PERCENT TELELECTURE, AND ANOTHER EXPERIMENTAL GROUP OF 25 WAS TAUGHT ONLY BY TELELECTURE. EACH GROUP CONSISTED OF INSERVICE VOCATIONAL-TECHNICAL TEACHERS ENROLLED IN A ONE-SEMESTER COURSE ON THE PRINCIPLES OF TEACHING INDUSTRIAL SUBJECTS. ALL STUDENTS WERE GIVEN AN OTIS EMPLOYMENT TEST AND A PRETEST OF COURSE CONTENT TO MEASURE GENERAL ABILITY AND INITIAL STATUS, AND WRITTEN AND ORAL EVALUATION PROCEDURES WERE CONDUCTED THROUGHOUT THE COURSE. DATA WERE ANALYZED BY ONE-WAY ANALYSIS OF VARIANCE, CHI-SQUARE, COEFFICIENT OF CORRELATION, AND CONCORDANCE W. CONCLUSIONS INDICATED 1) A PROFESSIONAL COURSE MAY BE PRESENTED WITH EQUIVALENT RESULTS EITHER BY TRADITIONAL OR TELELECTURE METHODS 2) STUDENT ATTITUDES WERE NOT ADVERSELY AFFECTED BY EITHER COURSE CONTENT OR METHOD OF PRESENTATION AND 3) TELELECTURE WAS MORE ECONOMICAL IN COSTS AND IN TRAVEL TIME. THIS ED.D. THESIS WAS SUBMITTED TO THE UNIVERSITY OF MISSOURI. (GR) ERIC
- 4505A *** BEATTIE, THOMAS * FRICK, PAUL 4505A
 THE TELEPHONE METHOD OF TEACHING
 DENVER, COLORADO STATE DEPARTMENT OF EDUCATION, (1963) 23P. ERIC ED 026 357
 // COLORADO WESTERN-STATES-SMALL-SCHOOLS-PROJECT SECONDARY-ED CURRICULUM-ENRICHMENT AMERICAN-HISTORY EVALUATION-QUESTIONNAIRE COST MOUNTAIN-STATES-TELEPHONE-CO
 IN ORDER TO DETERMINE THE FEASIBILITY OF BRINGING OUTSTANDING TEACHERS TO THE HIGH SCHOOL CLASSROOM, 5 SMALL COLORADO SCHOOLS EXAMINED MULTISCHOOL SHARING OF INFORMATION THROUGH USE OF LONG-DISTANCE CONFERENCE TELEPHONE CALLS. THREE OF THE EXPERIMENTS INVOLVED COLLEGE PROFESSORS LECTURING VIA TELEPHONE TO HIGH SCHOOL STUDENTS IN AMERICAN HISTORY CLASSES. THE STUDENTS RESPONDED WITH QUESTIONS, THUS 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 EXPERIMENTS AND THAT TELEPHONE USE HAS 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. (AN) ERIC
- 4506C *** EVERLY, JACK C. 4506C
 INSTRUCTIONAL SYSTEMS FOR EXTRAMURAL COURSES
 PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 11P. ERIC ED 036 754
 // ILLINOIS-UNIV UNIVEX 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) UNIVEX NET, WHICH TRANSMITS AUDIO AND VISUAL SIGNALS VIA TELEPHONE LINES FROM ONE CAMPUS CLASSROOM TO ANOTHER CLASSROOM LOCATED SOMEWHERE ELSE IN THE STATE AND 2) AUTO-TUTORIAL CARREL UNITS WHICH PROVIDE FOR INDEPENDENT STUDY. A COMBINATION OF THE AUTO-TUTORIAL AND THE UNIVEX SYSTEM IS ALSO EVALUATED. THE EVALUATIONS ARE LEARNER ORIENTED. ATTITUDE WAS MEASURED WITH THE ILLINOIS COURSE EVALUATION QUESTIONNAIRE. ACTUAL PERFORMANCE WAS MEASURED BY GRADES AND SPECIFIC CRITERIA FOR SUCCESS IN OBTAINING EDUCATIONAL OBJECTIVES. (THE QUESTIONNAIRE AND FOUR REFERENCES ARE INCLUDED.) (AUTHOR/LY). ERIC
- 4507C *** PETERSON, BERNADINE H. 4507C
 ADULT EDUCATION BY MEANS OF TELEPHONE
 PAPER PRESENTED AT THE ADULT EDUCATION RESEARCH CONFERENCE, MINNEAPOLIS, FEBRUARY 27-28, 1970. 7P. ERIC ED 036 758
 // WISCONSIN-UNIV EXTENSION-UN GRADUATE-ED CONTINUING-ED HOME-ECONOMICS EVALUATION-CONTROL-GROUP ETN ARTICULATED-INSTRUCTION
 USING A GRADUATE CREDIT AND A NONCREDIT HOME ECONOMICS COURSE, THIS STUDY OF THE UNIVERSITY OF WISCONSIN EDUCATIONAL TELEPHONE NETWORK (ETN) INVESTIGATED WHETHER TELEPHONE INSTRUCTION CAN BE EFFECTIVE IN ADULT EDUCATION, AND HOW ADULTS WOULD REACT TO THIS MEDIUM OF REMOTE, OFF CAMPUS EXTENSION TEACHING. THE GRADUATE COURSE WAS DIVIDED BETWEEN AN EXPERIMENTAL GROUP (TELEPHONE) AND A CONTROL GROUP (ON CAMPUS, FACE-TO-FACE INSTRUCTION). THE ETN NONCREDIT SEMINAR CONSISTED OF THREE TWO-HOUR SESSIONS, ONE A WEEK. TENTATIVE EVALUATIONS LED TO THESE CONCLUSIONS 1) WAYS OF HANDLING TELEPHONE COURSE CONTENT AND FORMAT NEED TO BE IDENTIFIED AND IMPLEMENTED 2) PARTICIPANTS AND PROGRAM LECTURERS NEED PREPARATION FOR THE MECHANICAL ASPECT OF SUCH EXPERIENCES 3) CERTAIN TYPES OF INDIVIDUALS FUNCTION BETTER WITH ARTICULATED MEDIA THAN OTHERS DO 4) VISUAL AIDS IN TELEPHONE INSTRUCTION ENHANCE PRESENTATIONS AND EASE REMOTENESS 5) CERTAIN SKILLS CAN BE LEARNED WHICH ENABLE PERSONS TO INCREASE THEIR EFFECTIVENESS UNDER TELEPHONE INSTRUCTION 6) TELEPHONE INSTRUCTION IS USEFUL FOR PERSONS SCATTERED OVER WIDE GEOGRAPHICAL AREAS, AND ITS USE SHOULD BE FURTHER REFINED, EXPANDED, AND EVALUATED. (AUTHOR/LY). ERIC
- 4511A *** FARQUHAR, J.A. * DEI ROSSI, J.A. 4511A
 ALTERNATIVE TECHNOLOGIES FOR INFORMATION NETWORKS
 SANTA MONICA, CALIFORNIA, RAND CORPORATION, DECEMBER 1969. 9P. RAND REPORT NO. P-4272. ERIC ED 038 156
 // BIOMEDICAL-INFORMATION-NETWORKS COST
 THE PAPER CONCERNS SOME OF THE ECONOMIC CONSIDERATIONS INHERENT IN DESIGNING USER SERVICES THAT INCORPORATE VARIOUS COMMUNICATION SYSTEMS. IT DESCRIBES THREE SUCH SERVICES CONSIDERED IMPORTANT IN PROVIDING INFORMATION TO THE BIOMEDICAL COMMUNITY COMPRISED OF PRACTICING PHYSICIANS AND THOSE ENGAGED IN TEACHING AND RESEARCH, AS WELL AS OTHER PROFESSIONALS DIRECTLY INVOLVED IN BIOMEDICAL RESEARCH AND IN THE PRACTICE OF MEDICINE. FOLLOWING THIS DISCUSSION IS A BRIEF DESCRIPTION OF SOME TECHNOLOGICAL DEVELOPMENTS THAT MIGHT MAKE THESE OR SIMILAR SERVICES AVAILABLE IN LESS EXPENSIVE WAYS, AS WELL AS SOME PROBLEM AREAS. (AUTHOR)

RECID INDEX

- 4512C *** NILES, ANNE G. 4512C
 DEFINITIVE DIALING - NURSING DIAL-ACCESS
 MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION, MARCH 1970. 61P. ERIC ED 045 880
 // WISCONSIN-UNIV EXTENSION-UW CONTINUING-ED DIAL-ACCESS-LIBRARY EVALUATION-QUESTIONNAIRE
 COST WISCONSIN-REGIONAL-MEDICAL-PROGRAM
 NURSING DIAL ACCESS, A TAPED 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 AVEAGES 1,000 CALLS A MONTH. A SURVEY OF THE USERS INDICATED THAT 1) THE
 PROGRAM HAS BEEN FOUND TO BE AN APPROPRIATE WAY TO PROVIDE CERTAIN TYPES OF INFORMATION 2)
 NURSES HAVE ACCEPTED THIS INFORMATION RETRIEVAL SYSTEM AND 3) THE PROGRAM HAS BEEN SUCCESSFUL
 IN MEETING ITS PURPOSE - TO ASSIST NURSES OUTSIDE THE METROPOLITAN AREAS OF THE STATE.
 (APPENDIXES INCLUDE A BIBLIOGRAPHY OF TAPES, GUIDELINES FOR DEVELOPING DIAL ACCESS LIBRARIES,
 AND LISTS OF TAPES AVAILABLE TO STATES OTHER THAN WISCONSIN.) (PT)
- 4514C *** BARCZELL, JOHN D. 4514C
 A NEW-ENGLAND LAND-GRANT NETWORK, A STUDY OF THE FEASIBILITY OF ESTABLISHING EDUCATIONAL
 INFORMATION LINKS BETWEEN THE SIX LAND-GRANT 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-GRANT
 UNIVERSITIES. CRITERIA WERE TIME (USE 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 COMMUNICATION DEVICES RECEIVED SPECIAL ATTENTION. IT WAS SUGGESTED, AMONG OTHER
 THINGS, THAT THE EASTERN EDUCATIONAL TELEVISION NETWORK (EEN) COULD BE THE BACKBONE OF AN
 EDUCATIONAL INFORMATION NETWORK, AND THAT A MAIN TRUNK MICROWAVE RELAY SYSTEM FROM WASHINGTON,
 D.C., TO MONTREAL COULD BE CREATED TO SERVE A COMPLETE REGIONAL DISTRIBUTION SYSTEM. (THE
 DOCUMENT INCLUDES PROVISIONS OF THE HIGHER EDUCATION ACT, TITLE 3, EEN ASSOCIATED INSTITUTIONS,
 AND DESCRIPTIONS OF THE EEN ITSELF, THE NEW ENGLAND LIBRARY INFORMATION NETWORK, A SHARED DATA
 PROCESSING SYSTEM FOR VERMONT 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
- 4519A *** CLARKE, MICHAEL J. (AND OTHERS) 4519A
 ART BY TELEPHONE, DESIGN AND EVALUATION
 LAS VEGAS, NEVADA, CLARK COUNTY SCHOOL DISTRICT, 1970. 31P. ERIC ED 044 222
 // NEVADA UTAH OREGON IDAHO WESTERN-STATES-SMALL-SCHOOLS-PROJECT SECONDARY-ED
 CURRICULUM-ENRICHMENT VISUAL-AIDS LEASED-LINES TITLE-III
 THE ART-BY-TELEPHONE PROGRAM, FUNDED UNDER TITLE III OF THE ELEMENTARY AND SECONDARY EDUCATION ACT,
 INVOLVED RURAL HIGH SCHOOLS IN NEVADA, OREGON, IDAHO, AND UTAH. THE PROGRAM WAS DESIGNED TO
 OFFER ART INSTRUCTION FROM A MASTER TEACHER TO STUDENTS ENROLLED IN HIGH SCHOOLS WITH LIMITED
 FINANCIAL RESOURCES. INSTRUCTION IN ART WAS PROVIDED BY JOINING A NUMBER OF WIDELY SEPARATED
 SMALL RURAL HIGH SCHOOLS INTO A CONFERENCE SITUATION IN WHICH ALL UNITS OF THE SYSTEM,
 INCLUDING THE INSTRUCTOR, WERE SERVED BY A COMMON 2-WAY-COMMUNICATION, AMPLIFIED TELEPHONE
 SERVICE. THE NECESSARY TELEPHONE LINES WERE LEASED AT A SPECIAL CONFERENCE RATE FOR 50 MINUTES
 PER WEEK. IN ACCORDANCE WITH A PREARRANGED SCHEDULE, THE TELEPHONE CONFERENCE OPERATOR
 INITIATED THE NECESSARY LINE SIGNALS TO BRING ALL PARTICIPATING SCHOOLS AND MASTER TEACHER INTO
 A JOINED, OPEN-LINE COMMUNICATION SETTING. EACH SCHOOL WAS EQUIPPED WITH A TELEPHONE AMPLIFIED
 RECEIVER AND TRANSMITTER SO THAT STUDENTS IN ANY AREA OF THEIR CLASSROOM COULD HEAR ALL
 CONVERSATION AND COULD ALSO INITIATE ORAL RESPONSES. IN ADDITION TO THE AMPLIFIED TELEPHONE
 EQUIPMENT, EACH PARTICIPATING SCHOOL WAS EQUIPPED WITH AN OVERHEAD PROJECTOR, 35-MM SLIDE
 PROJECTOR, TAPE RECORDER, AND PROJECTION SCREEN. THE PROGRAM OPERATED FOR 2 YEARS AND WAS
 CONSIDERED A PIONEERING SUCCESS FOR THE WESTERN STATES SMALL SCHOOLS PROJECT. EIGHT APPENDICES
 ARE INCLUDED. (AL). SEE 4022-3 AND 4715. ERIC
- 4520A *** BARCZELL, JOHN D. 4520A
 TOWARD A NEW-HAMPSHIRE 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 TV COST
 THE USE OF A MICROWAVE NETWORK TO ESTABLISH EDUCATIONAL INFORMATION LINKS BETWEEN FOUR NEW
 HAMPSHIRE CAMPUSES IS CONSIDERED IN THIS REPORT. A BUDGETARY ESTIMATE IS MADE FOR A TWO-WAY
 MICROWAVE CIRCUIT BETWEEN THESE POINTS AND A TWO-WAY MICROWAVE CIRCUIT BETWEEN DURHAM AND
 SADDLEBACK MOUNTAIN. THE PROPOSED MICROWAVE PATH, THE PROPOSED ROUTE FOR A MICROWAVE SYSTEM,
 AND THE PROPOSED AND EXISTING EDUCATIONAL TELEVISION NETWORK ARE ILLUSTRATED. THE
 POSSIBILITIES THAT THE NEW TECHNOLOGY OF INFORMATION TRANSFER BRING TO NATIONAL LIBRARIES AND
 UNIVERSITY LIBRARIES ARE DESCRIBED. THE INTERFACE BETWEEN INFORMATION SEEKERS AND INFORMATION
 SERVICES IS DISCUSSED. THE CONCLUSION IS MADE THAT TELEVISION IS UNIQUELY CAPABLE OF BEING
 BOTH THE FASTEST MODE OF TRANSMISSION AND, THROUGH THE DATA-PLEX SYSTEMS, THE COMMUNICATION
 SYSTEM MOST NEARLY CAPABLE OF HANDLING MASS TRAFFIC LOADS. (MF) ERIC

REC'D INDEX

- 4600C *** 4600C
- GE'S HOOKUP FOR BUSINESS CONFEREES
 BUSINESS WEEK 2183, P24+6, 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
- 4608C *** MCCURDY, PAT 4608C
- THE INNOVATIVE GROUP INNOVATES WITH TV
 CHEMICAL AND ENGINEERING NEWS 48,7, P16-7, FEB 16, 1970
 // HARRISON-HOUSE GLEN-COVE NEW-YORK CONFERENCING-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. (TCI), THE CONFERENCE WAS A STUDY IN INNOVATION AS THE TCI STAFF MEMBERS SOUGHT WAYS TO CREATE THE BEST ENVIRONMENT FOR INDIVIDUAL AND GROUP DISCUSSION. MANY FORMATS WERE TRIED, BUT CLOSED CIRCUIT TV WAS SO EFFECTIVE THAT THEATRE-STYLE MEETINGS WERE ABANDONED. DISCUSSION LEADERS REMAINED THE ONLY ONES LISTENING TO SPEAKERS IN PERSON. THE AUTHOR STATES THAT FEEDBACK WAS GENERALLY FAVORABLE. HE ALSO NOTES THAT A MINORITY OF PARTICIPANTS WERE UNIMPRESSED WITH TV. IN A POSTMORTUM INTERVIEW, TCI PRESIDENT BILL MAASS REFERRED TO TCI'S STAFF AS 'ENVIRONMENT CREATORS,' WHILE BOB CALHORN, EXECUTIVE DIRECTOR, SUGGESTED THAT TCI'S MAIN GOAL WAS PARTICIPATION. FK
- 4609C *** 4609C
- ON-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 OR COMMENTS TO THE PROFESSOR VIA AN FM-RADIO TALK BACK. DR. A. NERMAN HIXSON, THE SYSTEM'S DIRECTOR, NOTES THAT TWO CHANNELS WILL BE USED TO AIR COURSES FROM 9 A.M. TO 4 P.M., MONDAY THROUGH FRIDAY. TWO MORE CHANNELS WILL BE ADDED IN THE FUTURE. FK
- 4618C *** 4618C
- 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 PROGRAMED-INSTRUCTION INDIVIDUAL-INSTRUCTION VIDEOTAPE 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
- 4627C *** MITCHELL, D. 4627C
- BETTER VIDEO CONFERENCES
 BELL LABORATORIES RECORD 48,1, P19-22, JAN 1970
 // HOLMDEL 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 HOLMDEL, NEW JERSEY, THE NEW SYSTEM CAN ACCOMMODATE LARGE GROUPS WITH A NATURAL ATMOSPHERE NOT PREVIOUSLY ATTAINABLE. THE VIDEO SYSTEM USES A FULL-BAND (525-LINE, 4.3-MHZ), TWO-WAY TV CIRCUIT. THREE CAMERAS SPAN AN ARC OF PARTICIPANTS, AND AUTOMATIC SWITCHING CONTROLS, ACTUATED BY VOICE SOUNDS, TURN ON THE CAMERA WHICH COVERS THE PERSON WHO IS SPEAKING. A FOURTH CAMERA IS LOCATED OVERHEAD AND USES A ZOOM LENS TO FOCUS ON DRAWINGS, PRINTED MATERIALS AND OTHER VISUAL AIDS, WHILE A FIFTH CAMERA OVERVIEWS THE ENTIRE GROUP. THE CONFERENCE LEADER MUST CHOOSE BETWEEN FOUR MODES OF OPERATION, EACH OF WHICH PRESENT VARIATIONS IN THE UNIT'S AUTOMATIC SWITCHING SYSTEM. A COMPLEMENTARY AUDIO SYSTEM IS ALSO DESCRIBED IN THE ARTICLE, WHICH INCLUDES TWO DETAILED DIAGRAMS. FK

RECID INDEX

4628C *** CAMPBELL, R.R. * HONNOLD, G.H. 4628C

TEACHING BY TELEPHONE

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

// NEW-YORK-CITY ILLINOIS PRIMARY-ED SECONDARY-ED MATHEMATICS DIAL-ACCESS CAI
COMPUTER-TELEPHONE-LINK 403D-MULTIPLE-DATA-SET HOME-STUDY

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

4634C *** 4634C

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

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

// COLUMBIA MISSOURI-UNIV CONTINUING-ED MEDICAL-ED DIAL-ACCESS GT-E TAPE-LIBRARY

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

4644C *** LAVCIE, FRANCIS J. 4644C

THE CLASSROOM COMES TO THE ENGINEER

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

// ACE INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED ITFS FM-RADIO VISUAL-AIDS VIDEOTAPE
ELECTROWRITER CATV SATELLITE-DOMESTIC COST 2686-2690-MHZ

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

WH

4646C *** PETTIT, JOSEPH M. * GRACE, DONALD J. 4646C

THE STANFORD INSTRUCTIONAL TELEVISION NETWORK

IEEE SPECTRUM 7,5, P73-80, MAY 1970

// CALIFORNIA INDUSTRY-UNIVERSITY GRADUATE-ED CONTINUING-ED ENGINEERING ITFS 2686-2690-MHZ
FM-RADIO 4-MHZ CCTV VIDEOTAPE HOME-STUDY ACE COST FCC

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

WH

4648C *** 4648C

CONFERENCE CALLS BECOME FUN

BUSINESS WEEK, P101, DEC 5, 1970

// NEW-YORK-CITY TELEPHONE-DISCUSSION-GROUP TELESESSION-CO

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

RECID INDEX

4649C *** 4649C
 EDITORS GO TO CLASS VIA TELEPHONE HOOKUP
 EDITOR AND PUBLISHER 102,49, P18, DEC 6, 1969
 // CALIFORNIA SACRAMENTO-STATE-UNIV IOWA-STATE-UNIV NEVADA-UNIV HIGHER-ED
 CURRICULUM-ENRICHMENT 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. ANOTHER
 'CONFERENCE CALL TELELECTURE' IS PLANNED FOR JANUARY 1970. NEWS ITEM. SEE 4650C. CM

4650C *** 4650C
 'J' STUDENTS QUIZ EDITORS ACROSS US
 EDITOR AND PUBLISHER 102,51, P22, 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 RELATIVE LOW COST OF THIS HOOKUP MAKE THIS SYSTEM PRACTICAL FOR EDUCATIONAL
 USES. DEAN ROBERTSON OF SACRAMENTO STATE EXPECTS THE MINOR TECHNICAL PROBLEMS WHICH WERE
 PREVIOUSLY EXPERIENCED TO BE IRONED OUT BY THE NEXT TELELECTURE. NEWS ITEM. SEE 4649. CM

4669C *** MCNAGHAN, JOHN R. 4669C
 FUTURE REGULATORY POLICY ASPECTS OF THE TELEPHONE INDUSTRY
 PUBLIC UTILITIES FORTNIGHTLY 82,12, P33-9, DEC 5, 1968
 // FCC PRESIDENTS-TASK-FORCE-ON-COMMUNICATION-POLICY BELL RCAC ITT-WORLDCOM
 WESTERN-UNION-INTERNATIONAL COMMON-CARRIERS COMPETITION SATELLITES-DOMESTIC OWNERSHIP
 COMSAT FOREIGN-ATTACHMENTS COAXIAL-CABLE
 MCNAGHAN DISCUSSES SOME MAJOR PROBLEMS OF REGULATION THAT MUST BE CONFRONTED BEFORE '...THE
 TELEPHONE INDUSTRY MAY INDEED ADVANCE INTO A TELECOMMUNICATIONS SPACE AGE.' SHOULD ALL U.S.
 INTERNATIONAL RECORD CARRIERS BE MERGED AND SUBSTITUTED FOR VIABLE COMPETITION. WHAT ROLE
 SHOULD SATELLITES PLAY IN DOMESTIC COMMUNICATIONS AND WHO SHOULD OWN AND OPERATE THEM. SHOULD
 COMPANY RESTRICTIONS ON THE USE OF FOREIGN ATTACHMENTS BE RELAXED. IF SO, CAN THE NECESSARY
 COMPATABILITY BE MAINTAINED BY USING BUFFERS PROVIDED BY THE TELEPHONE COMPANIES. THE AUTHOR
 STRESSES THE NEED FOR REGULATORY AGENCIES TO VIEW THE NATIONAL NETWORK AS A SINGLE SYSTEM
 '...WHICH PROVIDES MILLIONS OF CONSUMERS WITH QUALITY, CAPACITY, AND ECONOMY IN
 COMMUNICATIONS.' HE QUOTES BELL ON THE FACTORS WHICH '...MAKE A DOMESTIC SATELLITE SYSTEM
 APPEAR SOMEWHAT LESS DESIRABLE THAN HAD PREVIOUSLY BEEN ASSUMED.' INDEED, COAXIAL SYSTEMS ARE
 IMPROVING APACE. PRIVATE ENTERPRISE AND GOVERNMENT REGULATION HAVE TOGETHER CREATED THE FINEST
 COMMUNICATION NETWORK IN THE WORLD. 'GOVERNMENT POLICY SHOULD BE CONDUCIVE TO A REGULATORY
 CLIMATE THAT WILL ENABLE THIS TO CONTINUE TO BE SO.' WH

4670C *** 4670C
 VOICE PICTURE HOOKUPS CONNECT TWO COMPANIES
 MACHINE DESIGN 42, P43, JAN 22, 1970
 // BOEING LOCKHEED VISUAL-AIDS LDX
 EXPERTS AT THE BOEING AND LOCKHEED COMPANIES IN SIX WIDESPREAD CITIES HAVE BEEN HOLDING MEETINGS
 VIA A TELEPHONE NETWORK CALLED TELECONFERENCE. SUCH JOINT MEETINGS HAVE BEEN ESSENTIAL EVER
 SINCE NASA AWARDED THE TWO COMPANIES A JOINT CONTRACT TO DESIGN THE APOLLO SPACE-SHUTTLE
 SYSTEM. REAR PROJECTION SCREENS FED BY LONG DISTANCE XEROGRAPHY ARE UTILIZED DURING THE
 MEETINGS. FK

4680C *** MCLNAR, JULIUS P. 4680C
 PICTUREPHONE SERVICE, A NEW WAY OF COMMUNICATING
 VOLTA REVIEW 72, P438-9, OCT 1970
 // AT-T BELL
 THE AUTHOR PRESENTS THE PICTUREPHONE DEVELOPED BY BELL TELEPHONE LABS AS A NEW AND UNIQUE WAY OF
 COMMUNICATING. AS THE TELEGRAPH SPED THE WRITTEN WORD AND THE TELEPHONE BROUGHT TWO-WAY
 CONVERSATION, THE PICTUREPHONE ALLOWS FACE-TO-FACE COMMUNICATION AT A DISTANCE. THE MORE
 'COMPLETE' COMMUNICATION WITH FACIAL EXPRESSIONS, NODS AND OTHER VISUAL CUES MAKES THE
 PICTUREPHONE MUCH MORE THAN JUST ANOTHER MEANS OF COMMUNICATION. ONCE USERS GET OVER THE
 INITIAL SELFCONSCIOUSNESS OF USING THE NEW DEVICE, THE ADVANTAGES BECOME QUITE CLEAR. OBJECTS
 AND WRITTEN MATERIALS MAY BE DISPLAYED. PERSONAL CONTACT CAN BE MADE VIA PICTUREPHONE, THUS
 ELIMINATING MANY BUSINESS TRIPS AND SOCIAL CALLS. PERHAPS THE NEED FOR DENSELY POPULATED
 CITIES WILL BE DIMINISHED AND MUCH OF THE DAY-TO-DAY BUSINESS AT HOME AND IN THE OFFICE CAN BE
 CONDUCTED BY PICTUREPHONE. ACCORDING TO THE AUTHOR, THE PICTUREPHONE IS 'THE NEXT BEST THING
 TO BEING THERE.' CM

RECID INDEX

4686C *** KRUCK, DONALD * TVERSKY, ARNOLD D. 4686C

CLASSROOM COMMUNICATION, TELECTURE

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

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

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

4692C *** MCKAY, GERALD R. 4692C

TELETEACHING, THE PARTY-LINE REVIVED

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

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

THE AUTHOR DESCRIBES AND MAKES CONCLUSIONS REGARDING A SERIES OF 75 TELEPHONE MEETINGS SPONSORED BY THE UNIVERSITY OF MINNESOTA EXTENSION DURING THE WINTER AND SPRING OF 1970-71. ACCORDING TO THE AUTHOR, THE SERIES BOTH PROVIDED INSIGHT INTO HOW TO UTILIZE TELETEACHING EFFECTIVELY AND PROVED TELETEACHING TO BE A 'USEFUL' ALTERNATIVE WHEN REGULAR TEACHING SITUATIONS ARE IMPOSSIBLE. COSTS OF THE CONFERENCE CALLS INCLUDE A 25 DOLLAR PER MONTH INSTALLATION FEE, A 35 DOLLAR PER MONTH RENTAL CHARGE AND A LINE CHARGE OF APPROXIMATELY 15 DOLLARS PER HOUR AND 45 MINUTE MEETING. IF PROGRAMMING WERE SCHEDULED FOR A MAJORITY OF THE 24 HOUR DAY, A LEASED LINE COULD LOWER THE COST PER PROGRAM. THE AUTHOR DESCRIBES BOTH THE ORIGINATING STUDIO AND THE RECEIVING STATIONS, AND ALSO OFFERS SUGGESTIONS FOR FUTURE MEETINGS CONCERNING 1) THE IMPORTANCE OF ADOPTING A PRESENTATION TO A SPECIFIC AUDIENCE 2) THE LENGTH OF PRESENTATIONS 3) VISUAL AIDS AND 4) TRAINING THE PERSON IN CHARGE OF EACH RECEIVING GROUP. AN EVALUATIVE SURVEY WAS CONDUCTED FOLLOWING THE SERIES IN ORDER TO DETERMINE RECIPIENT REACTION. FK

4693C *** MORRIS, ALBERT J. 4693C

UNIVERSITY INDUSTRY TELEVISION, RADIO AND TELEPHONE LINKS

EDUCATIONAL BROADCASTING REVIEW 3, P44-52, FEB 1970

// STANFORD-UNIV CONTINUING-ED INDUSTRY-UNIVERSITY ENGINEERING ITFS CATV ELECTROWRITER
SUNSTAR TAGER SURGE GENESYS-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 SHOULD BUT WILL PAY THE FULL CAPITAL AND OPERATING COSTS OF THE SYSTEM.' LC

4694C *** VICTOR COMPTOMETER CORPORATION. BUSINESS MACHINES GROUP 4694C

VICTOR ELECTROWRITER REMOTE BLACKBOARD, VERB

CHICAGO, VICTOR COMPTOMETER CORPORATION, NO DATE

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

THIS BROCHURE, PREPARED BY THE VICTOR COMPTOMETER CORPORATION, DESCRIBES AND LISTS THE ADVANTAGES OF THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB). ACCORDING TO VICTOR, VERB '...IS AN EFFECTIVE, ECONOMICAL REMOTE TEACHING AND TRAINING SYSTEM, WHICH USES AN ORDINARY PROJECTION SCREEN FOR A 'BLACKBOARD' AND THE TELEPHONE FOR VOICE TRANSMISSION.' AMONG THE ADVANTAGES OF THE SYSTEM IS TWO-WAY COMMUNICATION. IN CONJUNCTION WITH A TELEPHONE TELELECTURE HOOKUP, BOTH STUDENT AND TEACHER, THOUGH GEOGRAPHICALLY DISTANT, CAN CONVERSE. THE SYSTEMS ARE FLEXIBLE - WHEREVER THERE ARE TELEPHONE LINES, THE VERB EQUIPMENT CAN BE USED. VERB IS ALSO ECONOMICAL BECAUSE IT ELIMINATES THE NEED FOR COSTLY TRAVEL AND EXPENSE. FINALLY, THE MESSAGE IS RECEIVED ON A CONTINUOUS ROLL OF PAPER OR ACETATE FILM, AND EITHER FORM OF HARD COPY MAY BE EASILY STORED OR REPRODUCED. SOME OF THE CURRENT USES OF THE VERB SYSTEMS WHICH ARE PARTICULARLY USEFUL AND ECONOMICAL ARE COURSE ENRICHMENT, SPECIALIZED TEACHING, INSERVICE TRAINING AND CONTINUING EDUCATION. THE BROCHURE ALSO INCLUDES PICTURES AND DRAWINGS OF THE UNITS AS WELL AS ITEMS 4695-4700 WHICH ARE LISTED SEPARATELY. CM

REC'D INDEX

- 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 PROJECTOR (DEVELOPED BY BELL TELEPHONE LABS) THAT PUTS AN IMAGE ON THE SCREEN THAT IS TRANSMITTED OVER TELEPHONE LINES FROM ANYWHERE. THE IMAGE HAS TO BE SOMETHING THAT IS WRITTEN OR DRAWN ON AN *ELECTROWRITER*.* HERE, THE AUTHOR DESCRIBES HOW THE VERB SYSTEM OPERATES AND SOME POSSIBLE BUSINESS APPLICATIONS OF THE SYSTEM WHEN USED IN CONJUNCTION WITH AN AMPLIFIED TELEPHONE TELELECTURE 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 NATH. DURING THE SAME EVENING ANOTHER PRESENTATION WAS MADE TO 1800 PEOPLE FROM CEDAR FALLS, IOWA USING THE SAME HOOKUP. THE SYSTEM CAN BE USED ON REGULAR TELEPHONE LINES TO REACH WIDELY SCATTERED REMOTE AUDIENCES. COST IS CONSIDERABLY LESS THAN TRAVEL TIME AND EXPENSE NECESSARY TO BRING THE LECTURER TO THE SCHOOL. CM
- 4696C ***
- FRENCH IS TAUGHT OVER VERB
- CARBON COUNTY INSTRUCTIONAL CENTER 2,1, P1, 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, ESEA, AND IS IN ITS SECOND YEAR OF OPERATION. ACTIVITIES OF THE PROJECT INCLUDE THE INSTRUCTIONAL MATERIALS CENTER AND CURRICULUM IMPROVEMENT THROUGH THE USE OF THE VICTOR ELECTRO-WRITER REMOTE BLACKBOARD, (VERB).* ONE OF THE CLASSES BEING TAUGHT UTILIZING VERB IS FRENCH I. IT IS BEING TRANSMITTED FROM SARATOGA TO ENCAMPMENT AND HANNA, WYOMING. THE TEACHER OF THIS COURSE FEELS THAT HER STUDENTS HAVE MAINTAINED THEIR INITIAL ENTHUSIASM FOR THE VERB COURSE AND ARE ACHIEVING ON AN EQUAL LEVEL WITH THE REGULAR CLASSROOM FRENCH STUDENTS. SHE BELIEVES THAT BECAUSE OF THE EXTRA CLARITY REQUIRED OF HER BY THE SYSTEM, THAT HER VERB STUDENTS UNDERSTAND HER BETTER THAN HER CLASSROOM STUDENTS. STUDENTS VALUE THE CONTACT WITH OTHERS FROM DIFFERENT SCHOOLS AND WERE GLAD TO HAVE A COURSE WHICH WOULD NOT BE AVAILABLE TO THEM WITHOUT VERB. CM
- 4697C *** JHNSCN, LECNARD
- CHEMISTRY COURSE
- CARBON COUNTY INSTRUCTIONAL CENTER 2,1, P2, JAN 31, 1968
- // SARATOGA RAWLINS HANNA BAGGS ENCAMPMENT MEDICINE-BOW CHEYENNE LARAMIE WYOMING-UNIV CCCIC INSERVICE-ED TEACHER-ED GRADUATE-ED ELECTROWRITER
- AN INSERVICE COURSE ON CHEMISTRY WAS PRESENTED TO CARBON COUNTY TEACHERS UNDER THE SPONSORSHIP OF THE NATIONAL SCIENCE FOUNDATION WITH COOPERATION FROM THE UNIVERSITY OF WYOMING. VERB IS BEING UTILIZED BY DR. JOHN MAUSER OF THE CHEMISTRY DEPARTMENT OF THE UNIVERSITY OF WYOMING TO OFFER A SIX CREDIT GRADUATE COURSE. SIX SCHOOLS, SARATOGA, ENCAMPMENT, BAGGS, RAWLINS, HANNA, AND MEDICINE BOW, ARE PARTICIPATING IN THE SUCCESSFUL PROGRAM. MINOR TECHNICAL DIFFICULTIES WERE FAR OUTWEIGHED BY THE EXCELLENT COURSE AND INSTRUCTOR. CM
- 4698C *** WILLIAMS, BILL
- 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 SERVED AS AN ENRICHING EXPERIENCE 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 INSTRUCTION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL CURRICULUM. THE PROJECT IS CURRENTLY BEING DEVELOPED UNDER THE DIRECTION OF DR. KENNETH DIEM AND HOWARD HENNEBRY OF THE UNIVERSITY OF WYOMING.* COURSE UNITS WERE TRANSMITTED FROM THE UNIVERSITY OF WYOMING VIA THE VICTOR ELECTROWRITER REMOTE BLACKBOARD (VERB) AND OBSERVED CAREFULLY FOR TECHNICAL AND CONTENT QUALITY. 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

RECID INDEX

4701C *** AHMAD, BASHIR 4701C
 PRELIMINARY REPORT ON THE SURVEY CARRIED OUT FOR EVALUATING THE ELECTRO-WRITER COURSE (EWC) OFFERED BY THE UW EXTENSION DEPARTMENT OF ENGINEERING
 MIMED. 14P. RECEIVED FROM DR. JOHN KLUS, UNIVERSITY EXTENSION, UNIVERSITY OF WISCONSIN
 // WISCONSIN-UNIV CONTINUING-ED INDUSTRY-UNIVERSITY EVALUATION ETN-SCA ELECTROWRITER
 MR. AHMAD REPORTS EARLY ATTEMPTS TO EVALUATE THE FIRST (1969) ELECTROWRITER COURSE IN ELECTRICAL ENGINEERING OFFERED THROUGH THE ETN/SCA NETWORK BY UNIVERSITY EXTENSION OF THE UNIVERSITY OF WISCONSIN-MADISON. THIS COURSE WAS AN EXPERIMENT IN PROVIDING INSTRUCTION IN THE FIELD'S LATEST DEVELOPMENTS TO ENGINEERS IN INDUSTRY AND INSTITUTIONS DISTANT FROM MADISON. EVALUATION WAS MADE ON THE BASIS OF RESPONSES TO A QUESTIONNAIRE SENT TO THE 20 COURSE PARTICIPANTS. ELEVEN STUDENTS REPLIED. THE QUESTIONNAIRE IS INCLUDED AND THE COMPOSITE RESPONSE TO EACH QUESTION IS DESCRIBED IN A PARAGRAPH OR TWO EACH. A LIST OF PARTICIPANTS IS INCLUDED. CM

4707C *** UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. HEALTH SCIENCES UNIT * UNIVERSITY OF WISCONSIN. MEDICAL SCHOOL 4707C
 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 ETN-SCA PROGRAM-LISTING COST
 THIS BROCHURE IS DESIGNED TO INFORM HOSPITALS OF PROGRAMS IN CONTINUING MEDICAL EDUCATION PRESENTED OVER THE EDUCATIONAL TELEPHONE NETWORK (ETN) 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. FK

4708C *** PARKER, LORNE A. 4708C
 THE DEVELOPMENT AND UTILIZATIONS OF SUBSIDIARY COMMUNICATIONS AUTHORIZATION
 EDUCATIONAL BROADCASTING REVIEW 3,6, P34-43, DEC 1969
 // WISCONSIN-UNIV EXTENSION-UW SCA MULTIPLEXING FM-RADIO WHA-FM INSERVICE-ED MUSICASTING MEDICAL-RADIO-SYSTEM SIGHT-RADIO WEATHER-WARNINGS TEXAS KQUE-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 '...PERMITTED 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 MUSICASTING, THE TRANSMISSION OF MEDICAL INFORMATION, AIRCRAFT NEWSCASTING, WEATHER WARNINGS, SIGHT RADIO, SUBSCRIPTION SERVICES PROVIDING HOME STUDY INSTRUCTION, CREDIT COURSES, WORKSHOPS AND INSERVICE TRAINING. THE AUTHOR CONCLUDES, 'THE COMMERCIAL FM STATIONS SHOULD BE WILLING TO EXPLORE NEW UTILIZATIONS FOR THEIR SCA CHANNEL, SUCH AS REGIONAL WEATHER FOR MOTORISTS, AIRLINE NEWS AND LOCAL NEWS SERVICES. ENTERPRIZING 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

4709C *** PARKER, LORNE A. 4709C
 ETN-SCA PROGRAM HANDBOOK
 MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. DIVISION OF STAFF DEVELOPMENT, 1969. 38P
 // WISCONSIN-UNIV EXTENSION-UW PROGRAMING PRESENTATION-SKILLS VISUAL-AIDS MODERATOR EVALUATION-CHECKLIST
 THE AUTHOR OFFERS A BRIEF DESCRIPTION OF ETN-SCA, THE EDUCATIONAL COMMUNICATIONS NETWORK AT THE UNIVERSITY OF WISCONSIN, AND HOW IT WORKS. HE THEN PRESENTS GUIDELINES FOR USING THE SYSTEM AND SUGGESTED PROCEDURES FOR PLANNING PROGRAMS TO BE PRESENTED OVER THE SYSTEM. AREAS COVERED ARE REGISTRATION PROCEDURES, PROGRAM PRESENTATION, PREPARATION OF CONTENT, THE STUDIO 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 AN ILLUSTRATION OF STUDIO HAND SIGNALS. SEE 4710 FOR DISCUSSION OF EVALUATION TECHNIQUE. LC

4710C *** ZIMMERMAN, HARRY * MCCUBBIN, HAMILTON * PARKER, LORNE A. 4710C
 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-UW EVALUATION-CHECKLIST PEC
 A PROGRAM EVALUATION CHECKLIST (PEC) HAS BEEN DEVELOPED IN CONJUNCTION WITH THE UNIVERSITY OF WISCONSIN'S EXTENSION ETN-SCA NETWORK '...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

RECID INDEX

- 4711C *** PARKER, LORNE A. * MCCUBBIN, HAMILTON * ZIMMERMAN, HARRY 4711C
- PROGRAM EVALUATION CHECKLIST (PEC)
- MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. EDUCATIONAL COMMUNICATIONS, 1970. 4P
- // WISCNSIN-UNIV EXTENSION-UW EVALUATION-CHECKLIST ETN-SCA
- THE 1970 PROGRAM EVALUATION CHECKLIST IS AN EVALUATIVE INSTRUMENT DESIGNED FOR STUDYING THE REALTIONSHIP BETWEEN THE EDUCATIONAL OBJECTIVES OF PROGRAMS PRESENTED OVER THE UNIVERSITY OF WISCNSIN'S ETN-SCA SYSTEM AND THE SYSTEM OF COMMUNICATION ITSELF. '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.' (QUOTE FROM HANDBOOK CITED AT 4709.) FOR EXAMPLE, IN EVALUATING THE ROLE OF THE MODERATOR, PARTICIPANTS ARE ASKED TO EVALUATE THE STATEMENT. 'THE MODERATOR PRESENT WITH THE GROUP ASSISTED DURING THE QUESTION AND ANSWER PERIOD.' PARTICIPANTS RECORD THEIR EVALUATION BY SELECTING ONE OF FOUR CATEGORIES - NOT DESCRIPTIVE, MINIMALLY DESCRIPTIVE, SOMEWHAT DESCRIPTIVE AND MOST DESCRIPTIVE. SEE 4710 AND 4712. LC
- 4712C *** PARKER, LORNE A. * MCCURBIN, HAMILTON 4712C
- PROGRAM EVALUATION CHECKLIST (PEC)
- MADISON, UNIVERSITY OF WISCONSIN. UNIVERSITY EXTENSION. EDUCATIONAL COMMUNICATIONS, 1968. 10P
- // WISCNSIN-UNIV EXTENSION-UW EVALUATION-CHECKLIST EVALUATION-QUESTIONNAIRE ETN-SCA
- THE 1968 PROGRAM EVALUATION CHECKLIST IS USED BY THE ETN-SCA SYSTEM AT THE UNIVERSITY OF WISCONSIN. (SEE 4711). THIS YEAR'S CHECKLIST CONTAINS 76 STATEMENTS TO WHICH PARTICIPANTS ARE ASKED TO RESPOND BY INDICATING THE DEGREE (OUT OF 4 CHOICES) TO WHICH EACH STATEMENT PERTAINS TO THE PROGRAM BEING EVALUATED. SOME GENERAL INFORMATION ABOUT THE PROGRAM PARTICIPANT WHO IS EVALUATING THE COURSE IS ALSO REQUESTED, AS IS A FINAL OVERALL PROGRAM RATING. FK
- 4715C *** 4715C
- ART BY TELEPHCNE
- PACEMAKER 1,1, P2-3, JAN 1968
- // WESTERN-STATES-SMALL-SCHOOLS-PROJECT OREGON NEVADA IDAHO UTAH SECONDARY-ED CURRICULUM-ENRICHMENT VISUAL-AIDS MAILED-MATERIALS SLOW-SCAN-TV EVALUATION-SUBJECTIVE TITLE-III
- THROUGH A TITLE-III GRANT, ELEVEN HIGH SCHOOLS IN IDAHO, NEVADA, UTAH AND OREGON HAVE JOINTLY SPONSORED AN 'ART-BY-TELEPHONE' COURSE. PREVIOUSLY, NINE OF THE ELEVEN SCHOOLS HAVE BEEN UNABLE TO PROVIDE ART COURSES. EACH SCHOOL IS LINKED TO EVERY OTHER SCHOOL BY A CONFERENCE CALL PLACED THROUGH THE TELEPHONE COMPANY. THE VOICES OF THE LECTURER AND OF THE STUDENTS ARE AMPLIFIED, MAKING QUESTION AND ANSWER EXCHANGES POSSIBLE. THE AUDIO LINK IS AUGMENTED BY TRANSPARENCIES MAILED IN ADVANCE WHICH ARE SHOWN ON EITHER OVERHEAD OR 35MM PROJECTORS. ALL THE PARTICIPATING SCHOOLS RECORD EACH LECTURE FOR FUTURE USE. THE 'ART-BY-TELEPHONE' IDEA ORIGINATED FROM EXPERIMENTS WITH SLOW SCAN TV AND OTHER MEDIA USED IN EDUCATION. IT SEEMED APPARENT THAT WITH THE PROPER USE OF THE TELEPHONE AND VISUAL AIDS, LARGE AND REMOTE AUDIENCES COULD BE REACHED WITH A HIGH DEGREE OF TEACHER-PUPIL INTERACTION. IT IS FELT THAT ALMOST ANY SUBJECT CAN BE TAUGHT BY VISUALLY AUGMENTED TELECONFERENCING, BUT THAT SUCCESS IN ART INSTRUCTION, A SENSITIVE CURRICULUM, WOULD PROVE THE SUCCESS OF THE TECHNIQUE. THE PROGRAM IS CONSIDERED VERY SUCCESSFUL. SEE 4022-3 AND 4519. CM
- 4716C *** PUZZUOLI, DAVID A. 4716C
- A STUDY OF TEACHING UNIVERSITY EXTENSION CLASSES BY TELE-LECTURE
- MORGANTOWN, WEST VIRGINIA UNIVERSITY, 1970. 73P. ERIC ED 042 961
- // WEST-VIRGINIA-UNIV HIGHER-ED MATHEMATICS ENGINEERING PROBLEM-SOLVING ELECTROWRITER VISUAL-AIDS EVALUATION-T-TEST EVALUATION-F-RATIO EVALUATION-MANN-WHITNEY-U-TEST EVALUATION-QUESTIONNAIRE EVALUATION-CONTROL-GROUP
- AFTER AN CVERVIEW OF LITERATURE ON TELE-LECTURE MODELS, A STUDY WAS MADE OF THE APPLICABILITY OF TEACHING UNIVERSITY EXTENSION COURSES BY TELE-LECTURE AND ELECTROWRITER. AT WEST VIRGINIA UNIVERSITY, COURSES IN MINING ENGINEERING AND IN MODERN MATHEMATICS WERE GIVEN TO COLLEGE CLASSES (CONTROL GROUP) AND ALSO, USING TELE-LECTURE AND ELECTROWRITER, TO EXTENSION CLASSES IN BECKLEY, 265 MILES DISTANT (EXPERIMENTAL GROUP). COMPARATIVE ANALYSIS OF THE ACHIEVEMENT OF THE TWO GROUPS, USING THE T-TEST AND F RATIO, SHOWED THAT ACHIEVEMENT BY THE EXTENSION CLASSES WAS EQUAL TO, OR SIGNIFICANTLY GREATER THAN THAT OF STUDENTS IN THE ON-CAMPUS CLASSES. ANALYSIS OF EXTENSION STUDENT QUESTIONNAIRE RESPNCSES USING THE MANN-WHITNEY U TEST, SUPPORTED THE THESIS THAT SUCCESS IN TELE-LECTURE TEACHING IS GREATER WHEN THE PROFESSOR LIMITS CONTINUOUS LECTURING TO 20-25 MINUTES, PROVIDES PRINTED MATERIAL, USES AUDIOVISUAL TECHNIQUES AS A SUPPLEMENT, MAKES A NUMBER OF PERSONAL VISITS (TWO OR THREE) TO THE CLASS, AND BASES THE CLASS ON PROBLEM SOLVING TECHNIQUES. (THE QUESTIONNAIRE IS INCLUDED.) (DM). ERIC
- 4720C *** DYMENT, ROBERT 4720C
- PHONE LECTURES LINK COMMUNITY HOSPITALS TO UNIVERSITY CENTERS -
- RESIDENT AND STAFF PHYSICIAN 16,8 P52-8+, AUGUST 1970
- // REGIONAL-MEDICAL-PROGRAM-FCR-WESTERN-NEW-YORK BUFFALO NEW-YORK STATE-UNIV-OF-NEW-YORK ROSWELL-PARK-MEMORIAL-INSTITUTE MEDICAL-ED CONTINUING-ED 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 THAT LINKS 51 SMALL COMMUNITY HOSPITALS WITH THE HEALTH SCIENCE SCHOOLS OF THE STATE UNIVERSITY OF NEW YORK AT BUFFALO, ROSWELL PARK MEMORIAL INSTITUTE...AND OTHER MEDICAL CENTERS.' EACH HOSPITAL HAS SET ASIDE A SPECIAL CONFERENCE ROOM WHEREIN THE TELEPHONE AND SPEAKER EQUIPMENT ARE LODGED. EACH LISTENING GROUP HAS A MODERATOR. VISUAL AIDS ARE MAILED PRIOR TO EACH TELECONFERENCE AND ARE STORED AFTER THE LECTURE IN THE HOSPITAL LIBRARY FOR FUTURE USE. THE COST OF THE NETWORK, COMPARED WITH A SIMILAR PROGRAM OF EXTENDING LECTURES AIMED AT HELPING HEALTH PERSONNEL UPDATE THEIR MEDICAL KNOWLEDGE, IS LOW. SINCE THE NETWORK RELIES ON LEASED TELEPHONE LINES, PROGRAMS MAY BE SCHEDULED AT ANY TIME AND ARE USUALLY LEFT OPEN ENDED TO PERMIT FREER CONVERSATION. PROGRAMS VARY FROM LECTURES ON SNAKE BITE TREATMENT TO ENGLISH LANGUAGE INSTRUCTION FOR FOREIGN DOCTORS. JL

RECID INDEX

4721C

HEARTLINE LINKS THE GP TO SPECIALIST

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

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

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

4721C

4745C

*** VCLK, JOHN

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

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

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

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

4745C

4910C

*** 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 SUPERVISION, AND FEEDBACK AND INFORMATION EXCHANGE FROM HEALTH PROFESSIONALS AND THEIR PATIENTS. THIS COMMUNICATION NETWORK DEPENDS UPON TWO-WAY RADIO, OPEN AND CLOSED CIRCUIT TELEVISION, ACCESS TO VIDEO AND AUDIO TAPE LIBRARIES, A MONTHLY NEWSLETTER, VISITING CONSULTANTS, TRAINING COURSES, AUTOMATED DATA COLLECTION, CONTINUOUSLY AVAILABLE LIBRARY AND TELEPHONE CONSULTATION AND INFORMATION SERVICE FOR CERTAIN DISEASES, ON-LINE COMPUTER MONITORING OF PHYSIOLOGICAL DATA AND OTHER MORE CONVENTIONAL MEANS OF INFORMATION EXCHANGE. INCLUDES CHARTS AND MAPS. CM

4910C

4914

*** COLLINS, ROBERT H.

TELELECTURES

SOUTHERN EDUCATION REPORT 2,4, NOV 1966

4914

4915C

*** COLLINS, ROBERT H.

TELELECTURES BRING NOTABLES INTO CLASSROOMS

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

// MISSOURI STEPHENS-COLLEGE HIGHER-ED INTERINSTITUTIONAL-INSTRUCTION COURSE-ENRICHMENT ELECTROWRITER COST GENERAL-TELEPHONE-CO GT-E AT-T VICTOR-BUSINESS-MACHINE-CORP FORD-FOUNDATION HISTORY-TELECONF

FORD FOUNDATION FUNDS HAVE MADE IT POSSIBLE FOR STEVENS COLLEGE (MISSOURI) TO BE AN INNOVATOR AND LEADER IN THE TELEPHONE TELELECTURE TECHNIQUE. THE TELELECTURE SYSTEM WAS INSTITUTED BY JAMES A. BURKHART IN 1957 TO INCREASE THE EFFECTIVENESS OF HIS SOCIAL STUDIES INSTRUCTION AT STEVENS COLLEGE. THIS TECHNIQUE CAUGHT ON, AND THE COLLEGE NOW USES THE SYSTEM TO ENGAGE SCIENTISTS, GOVERNMENT OFFICIALS, AUTHORS, AND OTHER SPECIALISTS SO THAT STUDENTS ARE ABLE TO *...UNDERSTAND HOW THE FORMAL CLASS MATERIAL WAS RELATED TO THE WORLD IN WHICH THEY LIVED.* THROUGH AMPLIFIED TELEPHONES AND VICTOR ELECTROWRITERS, STEVENS COLLEGE AND SIX OTHER COLLEGES (3 PREDOMINANTLY NEGRO) WILL DO A CO-OPERATIVE LECTURE SERIES WITHOUT FOUNDATION ASSISTANCE IN NOVEMBER 1966. THE RELATIVE LOW COST OF THE TECHNICAL SYSTEM GIVES STEVENS COLLEGE AND OTHER INSTITUTIONS WITH VERY LIMITED FUNDS AN OPPORTUNITY TO GIVE THEIR STUDENTS A MUCH HIGHER QUALITY OF EDUCATION THAN WOULD NORMALLY BE AVAILABLE. MOBILITY AND FLEXIBILITY PLUS AN ATMOSPHERE OF INFORMALITY ARE ALSO LISTED AS ADVANTAGES. EQUIPMENT COST IS 40 DOLLARS PER MONTH PER SCHOOL. LONG DISTANCE CHARGES FOR SIX OR SEVEN SCHOOLS FOR A 45-MINUTE LECTURE IN THE U.S. RANGES BETWEEN 120 AND 125 DOLLARS. CM

4915C

REC'D INDEX

4917C *** YEOMANS, G. ALLAN * LINDSEY, HENRY C. 4917C

TELELECTURES

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

// HISTORY-TELECONF MISSOURI STEPHENS-COLLEGE HIGHER-ED INTERINSTITUTIONAL-INSTRUCTION
 COURSE-ENRICHMENT PEACE-CORPS COST ELECTROWRITER

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

4918C *** 4918C

SIU PROFS TEACH BY TELEWRITER

ILLINOIS EDUCATION 57,7, P292, MARCH 1969

// BARRY-COUNTY TELEWRITER-EDUCATIONAL-SYSTEM MISSOURI SECONDARY-ED COURSE-ENRICHMENT BOTANY
 CURRICULUM-ENRICHMENT COST ELECTROWRITER CARBONDALE ILLINOIS SOUTHERN-ILLINOIS-UNIV

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

4919 *** MYERS, K.C. 4919

DEFECTOR, OFFICIALS REPORT FIRSTHAND TO STUDENTS

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

4920C *** RICHARDSON, FRED M. (AND OTHERS) 4920C

THE DELEWARE 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 ORIGINATING FROM PENNSYLVANIA HOSPITAL, A
 GROUP OF DELAWARE PHYSICIANS SIGNIFICANTLY INCREASED THEIR KNOWLEDGE OF SELECTED MEDICAL
 TOPICS. FUNDED BY VARIOUS GRANTS, THE RADIO CONFERENCES BEGAN IN OCTOBER 1959. VOLUNTEER
 PHYSICIANS WERE TESTED BEFORE AND AFTER THE CONFERENCES BY MATCHED EXAMINATIONS PREPARED WITH
 QUESTIONS FROM THE FILES OF THE NATIONAL BOARD OF MEDICAL EXAMINERS. ALTHOUGH
 FOREIGN-EDUCATED PHYSICIANS SHOWED NO IMPROVEMENT, PHYSICIANS EDUCATED IN THE UNITED STATES
 ACHIEVED HIGHER SCORES AFTER THE CONFERENCES. THUS, THE AUTHORS CONCLUDE THAT '...THE TWO-WAY
 RADIO SERIES IS A REASONABLY EFFECTIVE TOOL AVAILABLE FOR THE CONTINUOUS EDUCATION OF
 PRACTICING PHYSICIANS.' THE ARTICLE IS VERY SPECIFIC AND GIVES DETAILED ANALYSES OF 1)
 EXAMINATION PREPARATION 2) DIFFICULTY OF QUESTIONS 3) VOLUNTEERS 4) GROUP SCORES AND 5)
 INTERPRETATION OF SCORES. THE ARTICLE ALSO DEFENDS MULTIPLE-CHOICE EVALUATIONS AS OPPOSED TO
 MORE SUBJECTIVE EVALUATIONS WHICH ARE DESCRIBED AS CLOUDED BY OPINION AND PERSONAL PREJUDICES.
 THE CONFERENCES ARE SIMILAR TO THOSE SPONSORED BY THE ALBANY MEDICAL COLLEGE. FK

4921B *** EDELMAN, LILY 4921B

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

WASHINGTON, COMMISSION ON ADULT JEWISH EDUCATION, B'NAI B'RITH, 1967

4922B *** WALLACE, NED 4922B

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. MIMED. 3P

4923 *** KRYSTAL, H. 4923

POSTGRADUATE TEACHING IN PSYCHIATRY COMBINING TV AND FM RADIO WITH SEMINARS

PSYCHOSOMATICS 3, P188-92, MAY-JUNE 1962

RECID INDEX

- 4924C *** NELSON, WILLIAM P. (EDITOR) * WOOLSEY, FRANK M., JR. (EDITOR) 4924C
- TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION
 NEW YORK STATE JOURNAL OF MEDICINE 58,23, P3831-2, DEC 1958
 // NEW-YORK ALBANY-MEDICAL-COLLEGE TRANSCRIPT-TELECONF
- THIS ARTICLE CONTAINS THE EDITED TEXT OF A TWO-WAY RADIO CONFERENCE ON PSYCHOTHERAPY, HELD APRIL 12, 1957 BETWEEN THE ALBANY MEDICAL CENTER AND SIX HOSPITALS IN THE ALBANY AREA. THE CONFERENCE BEGAN WITH PRESENTATIONS BY DR. WILLIAM L. SANDS AND DR. JOHN K. MENELEY, JR., BOTH OF ALBANY MEDICAL COLLEGE. IN HIS PRESENTATION, DR. MENELEY STRESSED THAT HE WAS SPEAKING TO ALL PHYSICIANS, NOT JUST PSYCHIATRISTS. FOLLOWING THE PRESENTATIONS, PARTICIPATING HOSPITALS WERE ALLOWED TO SUBMIT QUESTIONS TO THE DISCUSSANTS. OFTEN THESE QUESTIONS LED TO GIVE-AND-TAKE DISCUSSIONS BETWEEN DR. SANDS, DR. MENELEY AND THE CONFERENCE'S MODERATOR, DR. FRANK M. WOOLSEY, JR. OTHER TELECONFERENCE PROCEEDINGS WILL BE PRINTED IN THE NEW YORK STATE JOURNAL OF MEDICINE. SEE ALSO 0542 AND 4051. FK
- 4925C *** BRISKIER, ARTHUR 4925C
- HEART EXAMINATION AND CONSULTATION BY RADIO AND RADIO PHOTO TRANSMISSION
 JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION 169,17, P71-89 APRIL 25, 1959
 // NEW-YORK-CITY PARIS ROME REMOTE-CONSULTATION DATA-TRANSMISSION RADIO-SHORT-WAVE
 RADIOPHOTOGRAPHY EKG INTERNATIONAL-DATA-TRANSMISSION
- TWO EXPERIMENTS INVOLVING THE TRANSMISSION OF CLINICAL DATA FROM NEW YORK TO PARIS AND ROME WERE PERFORMED ON MAY 26, AND JULY 3, 1958. HEART SOUNDS WERE TRANSMITTED FROM NEW YORK VIA SHORT WAVE RADIO. THE RECORDED SOUNDS WERE INSTANTLY RETRANSMITTED ACROSS THE ATLANTIC FOR CROSS-CHECKING. VISUAL CLINICAL INFORMATION WAS EXCHANGED BY RADIO PHOTOGRAPHY--THIS INCLUDED ROENTGENOGRAMS, ELECTROCARDIOGRAMS AND RADIO-CHARTS TOGETHER WITH ESSENTIAL PERSONAL INFORMATION ABOUT THE PATIENT. THE SUCCESS OF THESE EXPERIMENTS LEADS BRISKIER TO COMMENT OPTIMISTICALLY ON THE FUTURE APPLICATIONS OF THIS TECHNOLOGY. SINCE THE TRANSMITTED INFORMATION IS SELF-EXPLANATORY AND CONTAINS NO SPEAKER WORDS, THERE WILL BE NO LANGUAGE BARRIER TO '...INSTANTANEOUS MEDICOSURGICAL EXAMINATION AND CONSULTATION.' APPLICATION OF LONG-DISTANCE CONSULTATION '...SHOULD RESULT IN A MORE COMPLETE AND SATISFACTORY MUTUAL UNDERSTANDING AMONG ALL DOCTORS AND SCIENTISTS THROUGHOUT THE WORLD.' WH
- 4926C *** RICE, ED * QUINN, STANLEY J. 4926C
- TALKBACK AT UCCNN
 EDUCATIONAL TELEVISION 1,2, P11-4, JUNE 1969
- 4927 *** 4927
- TWO-WAY RADIO CONFERENCES FOR POSTGRADUATE MEDICAL EDUCATION - TEN YEARS OF EXPERIENCE, 1955-1966
 ALBANY, N.Y., ALBANY MEDICAL COLLEGE OF UNION UNIVERSITY. DEPARTMENT OF POSTGRADUATE EDUCATION, 1966. PAMPHLET
- 4928C *** BALINT, MICHAEL 4928C
- TWO-WAY TELEPHONE SYSTEM FOR SEMINARS USING POST-OFFICE TRUNK LINES
 LANCET 2,7372, P1293, DEC 12, 1964
 // LONDON NORTHAMPTON ENGLAND CONTINUING-ED MEDICAL-ED CCST TECHNICAL-CONSIDERATIONS
- AFTER OBSERVING THE TWO-WAY RADIO NETWORK AT NEW YORK'S ALBANY MEDICAL COLLEGE, THE AUTHOR EXAMINED THE POSSIBILITIES OF SETTING UP A SIMILAR SYSTEM IN GREAT BRITAIN. THE NEED FOR IN-SERVICE MEDICAL EDUCATION WAS RECOGNIZED, BUT IT WAS NECESSARY TO DEVISE A SYSTEM THAT WOULD NOT DISRUPT THE WORK DAY. AN ACCEPTABLE TWO-WAY TELEPHONE SYSTEM WAS NEGOTIATED WITH THE RELIANCE TELEPHONE CO., USING PARALLEL TRUNK LINES BETWEEN NORTHAMPTON AND LONDON. THE AUTHOR FEELS THAT THE RANGE OF USEFULNESS OF THIS METHOD IS CONSIDERABLE. ONE CAN THINK OF APPLYING IT ANYWHERE WHERE THE AUDIENCE IS SMALL ENOUGH TO MAKE INTENSIVE PARTICIPATION FEASIBLE - SAY TEN TO TWENTY PARTICIPANTS AT EACH END. ALTHOUGH DIRECT PERSONAL CONTACT HAS TO BE SACRIFICED, THIS IS MORE THAN MADE GOOD BY THE LESSENED DISTURBANCE OF ONE'S DAILY ROUTINE. CONSIDERABLE ATTENTION WAS PAID TO DEVELOPING A SYSTEM WHICH WAS PORTABLE, INEXPENSIVE AND COULD BE OPERATED BY PERSONS NOT TRAINED IN ELECTRONICS. LC
- 4929 *** NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT 4929
- UNIVERSITY INTERCOMMUNICATION, THE NINE UNIVERSITIES RESEARCH PROJECT
 OXFORD, NEW YORK, PERGAMON PRESS, 1966. 92P
- 4930 *** NATIONAL EXTENSION COLLEGE. INTER-UNIVERSITY RESEARCH UNIT * PERRATON, H.D. * WADE, D.A. 4930
 * FOX, J.W.
- LINKING UNIVERSITIES BY TECHNOLOGY
 CAMBRIDGE, NATIONAL EXTENSION COLLEGE, 1969. 83P

REC'D INDEX

4931C	<p>***</p> <p>TEACHING BY TELEPHONE</p> <p>AUDIOVISUAL INSTRUCTION 12,7, P483-7, SEPT 1967</p> <p>// TOPEKA KANSAS SECONDARY-ED TEACHER-SHARING COURSE-ENRICHMENT UCLA ADULT-ED EXTENSION CORNELL INDUSTRY-UNIVERSITY ENGINEERING ELECTROWRITER NEW-YORK-CITY LOS-ANGELES HOMEBCUND-CHILDREN</p> <p>THE PUBLIC HIGH SCHOOLS OF TOPEKA, KANSAS BEGAN USING A TWO-WAY TELEPHONE AND ELECTROWRITER TELELECTURE TECHNIQUE AS A TEACHER SHARING DEVICE WITHIN THREE PARTICIPATING SCHOOLS. THE SCHOOLS PLAN TO USE TELELECTURES FOR COURSE ENRICHMENT BY PROVIDING CONTACT BETWEEN THE STUDENTS AND PROMINENT SPEAKERS. THE AUTHOR ALSO DESCRIBES USE OF TELELECTURES BY OTHER INSTITUTIONS TO DEMONSTRATE OTHER MODES OF USE AND THE EQUIPMENT UTILIZED. HE DESCRIBES A UCLA ADULT EXTENSION COURSE WHICH USED PUSH-BUTTON PHONES TO ALLOW SUBGROUPS TO CONVERSE INDEPENDENTLY OR WITH THE ENTIRE GROUP. CORNELL UNIVERSITY'S COLLEGE OF ENGINEERING USES THE 'BLACKBOARD-BY-WIRE' TO TEACH INDUSTRIAL SCIENTISTS 55 MILES AWAY. THE SYSTEM UTILIZED TWO-WAY VOICE AND ONE-WAY ELECTRONIC PEN COMMUNICATION AND AN INDICATOR BUTTON TO SIGNAL THE DESIRE TO SPEAK. HOMEBOUND CHILDREN IN NEW YORK AND LOS ANGELES ARE RECEIVING INSTRUCTION BY MEANS OF A NEW BELL SYSTEM SERVICE CALLED TELE-CLASS SERVICE. THE SYSTEM UTILIZED AUTOMATIC DIALING, PUSH BUTTONS ALLOWING SIMULTANEOUS OR INDIVIDUAL CONNECTIONS, AND MULTI-DIRECTIONAL VOICE COMMUNICATION. THE ALVORD UNIFIED SCHOOL DISTRICT IN RIVERSIDE, CALIFORNIA HAS A DIAL-A-TAPE SYSTEM FOR REPETITION OR EXPLANATION OF HOMEWORK ASSIGNMENTS. CM</p>	4931C
4933	<p>***</p> <p>DEVELOPMENT, UTILIZATION AND EVALUATION OF GRADUATE EDUCATION BY TWO-WAY RADIO ACTIVE PARTICIPATION CONFERENCES. FINAL REPORT</p> <p>ALBANY, N.Y., ALBANY MEDICAL COLLEGE. DEPARTMENT OF POSTGRADUATE MEDICINE, 1967</p>	4933
4934C	<p>*** BRETZ, RUDY</p> <p>COMMUNICATION MEDIA, PROPERTIES AND USES</p> <p>SANTA MONICA, CALIF., RAND CORPORATION, 1969. 113P</p>	4934C
4941C	<p>*** PARKER, LORNE A.</p> <p>WISCONSIN IDEA JOINS THE PARTY-LINE</p> <p>PROGRAM PREVIEW 1,9, P19-21, NOV 1968</p> <p>// WISCONSIN-UNIV EXTENSION-UW ETN-SCA MULTIPLEXING WHA-FM FM-RADIO SCA-REGULATION FCC PROGRAMING</p> <p>THIS ARTICLE DESCRIBES THE HISTORY AND DEVELOPMENT OF ETN AND SCA, TWO COMMUNICATIONS SYSTEMS WHICH ARE BEING USED BY THE UNIVERSITY OF WISCONSIN EXTENSION TO TRANSMIT PROGRAMS THROUGHOUT THE STATE OF WISCONSIN. LINKING 50 COURTHOUSES, 56 HOSPITALS AND 15 UW CAMPUS CENTERS, ETN IS A TELECONFERENCEING HOOKUP SIMILAR TO AN OLD FASHIONED, RURAL TELEPHONE SERVICE WITH A NUMBER OF PARTIES ON THE SAME LINE. SCA IS A MULTIPLEXING TECHNIQUE WHICH ALLOWS AN FM STATION TO TRANSMIT AN ADDITIONAL SIGNAL ON TOP OF ITS REGULAR ONE. THE FCC AUTHORIZED SCA FOR COMMERCIAL PURPOSES IN 1955 AND FOR EDUCATIONAL PURPOSES IN 1961. ALTHOUGH THE TWO SYSTEMS HAVE MANY SIMILARITIES, ETN IS MORE FLEXIBLE AND SPONTANEOUS, WHILE FEEDBACK OVER SCA REQUIRES THAT A LISTENER PLACE A LONG DISTANCE TELEPHONE CALL TO THE ORIGINATING FM STATION. SCA AT THE UNIVERSITY OF WISCONSIN BEGAN IN 1966 OVER WHA-FM, AN EDUCATIONAL STATION, WHILE ETN BEGAN BY TRANSMITTING POSTGRADUATE MEDICAL PROGRAMS IN 1965. SINCE THEIR BEGINNINGS, ETN AND SCA HAVE BOTH EXPANDED AND DIVERSIFIED THEIR OFFERINGS, ALTHOUGH '...THE SURFACE HAS BARELY BEEN SCRATCHED IN THE DEVELOPMENT OF THE TWO SYSTEMS.' FK</p>	4941C
4942C	<p>***</p> <p>ELECTROCARDIOGRAPH NET LINKS JOHNSTOWN HOSPITAL WITH HOMES OF PHYSICIANS</p> <p>COMMUNICATIONS NEWS 7,6, JUNE 1970</p> <p>// PENNSYLVANIA LEE-HOSPITAL REMOTE-DIAGNOSIS DATA-TRANSMISSION EKG GENERAL-TELEPHONE-CO-OF-PENNSYLVANIA</p> <p>LEE HOSPITAL IN JOHNSTOWN, PENNSYLVANIA HAS INITIATED AN ELECTROCARDIOGRAPH NETWORK WHICH ALLOWS PHYSICIANS TO ANALYZE EKG TRACINGS WITHOUT LEAVING THEIR HOMES. THE EKG NETWORK, WHICH IS AVAILABLE ON WEEKENDS, AT NIGHTS, AND AT OTHER TIMES WHEN A HEART SPECIALIST IS NOT PRESENT AT LEE HOSPITAL, RESULTS IN SPEEDY DIAGNOSIS AND SAVES PHYSICIANS MUCH TRAVEL TIME. UTILIZING STANDARD TELEPHONE LINES PROVIDED BY THE GENERAL TELEPHONE COMPANY OF PENNSYLVANIA, THE SYSTEM CONSISTS OF EKG MACHINES AND DATA TRANSLATORS AT BOTH THE HOSPITAL AND PHYSICIANS' HOMES. THE HOSPITAL UNIT CAN BE MOVED FROM ROOM TO ROOM, AND EKG TRACINGS ARE TAPE RECORDED FOR FUTURE REFERENCE. THE POSSIBILITY OF ADDING OTHER HOSPITALS TO THE EKG NETWORK IS BEING INVESTIGATED. A DIAGRAM AND PHOTOGRAPHS OF THE SYSTEM ARE INCLUDED. FK</p>	4942C
4949C	<p>*** FINGER LAKES REGION SUPPLEMENTARY EDUCATIONAL CENTER</p> <p>GRADUATE INSTRUCTION VIA TELEPHONE</p> <p>ROMER, N.Y., SUPPLEMENTARY EDUCATION CENTER, 1968. 19P</p>	4949C

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4951C	<p>*** ORLICH, DONALD C. (EDITOR) * HILEN, CHARLES O. (EDITOR)</p> <p>TELECOMMUNICATIONS FOR LEARNING</p> <p>EVERETT, WASHINGTON, GENERAL TELEPHONE COMPANY OF THE NORTHWEST AND WASHINGTON STATE UNIVERSITY, 1969. 62P. ERIC ED 045 868</p> <p>// TELEPHONE-TECHNICAL-CAPACITIES TV-TWO-WAY COST BELL</p> <p>THIS REPORT OF A SEMINAR ON THE APPLICATION OF TELECOMMUNICATIONS TECHNOLOGY TO EDUCATIONAL THEORY AND PRACTICE CONTAINS ELEVEN SPEECHES. THE FIRST PRESENTS ILLUSTRATIONS OF THE NEED FOR FEEDBACK FROM THE USER, BASIC CONSIDERATIONS FOR PLANNING IN TELECOMMUNICATIONS, AND USES OF THE NEW EQUIPMENT. THE SECOND DESCRIBES THE FUNCTION AND MECHANICS OF A TELEPHONE SYSTEM AND THE AVAILABLE SERVICES PROVIDED BY TELEPHONE COMPANIES, AND THE THIRD SPEECH DEALS WITH VOICE GRADE COMMUNICATION DEVICES AND THEIR USES. THE FOURTH OFFERS CRITERIA FOR ANALYZING A DATA COMMUNICATIONS SYSTEM AND A DESCRIPTION OF DATA SETS AND SERVICES PROVIDED BY THE BELL SYSTEM, AND THE FIFTH DETAILS DIFFERENT MODES OF TELECOMMUNICATIONS AND THE SERVICES AND SUPPORTIVE HARDWARE OFFERED BY TELEPHONE COMPANIES. THE SIXTH SPEECH CONSIDERS WAYS TO PLAN AND APPLY DATA COMMUNICATIONS DEVICES TO EDUCATION, WHILE THE SEVENTH CONSIDERS THESE DEVICES IN RELATION TO THE FINANCIAL INDUSTRY. THE EIGHTH EXPLORES SPECIAL FUNCTIONS OF THE NEW TECHNOLOGY IN EDUCATION, AND THE NINTH DETAILS OPERATIONAL COSTS AND THE CONCEPT OF TIME SHARING. THE TENTH IS CONCERNED WITH THE USES OF TWO-WAY TELEVISION IN THE FUTURE OF EDUCATION, AND THE FINAL SPEECH DEALS WITH PROBLEMS OF EDUCATORS IN MAKING PREDICTIVE JUDGEMENTS CONCERNING THE USES OF DATA COMMUNICATIONS TECHNOLOGY. (SM) ERIC</p>	4951C
4963B	<p>*** WOODRUFF, GARY L.</p> <p>THE TECHNICAL ASPECTS OF VOICE TELEPHONE COMMUNICATIONS</p> <p>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</p>	4963B
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- TELECOMMUNICATIONS, TOWARD NATIONAL POLICIES FOR EDUCATION
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- // CPB JCET PRESIDENTS-TASK-FORCE-ON-COMMUNICATION-POLICY PRIMARY-ED SECONDARY-ED HIGHER-ED
 GRADUATE-ED CONTINUING-ED ADULT-ED HOME-STUDY PROGRAMING 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
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 PRESCHOOL EDUCATION, CONTINUING EDUCATION, AND URBAN EDUCATION. THE RECOMMENDATIONS OF THE
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 SHOULD INSURE THE RECOGNITION OF EDUCATION'S STAKE IN THE NEW TECHNOLOGIES, THAT JCET SHOULD
 EMPHASIZE THE IMPORTANCE OF THE OPPORTUNITY THAT NOW EXISTS TO BRING TWO-WAY CABLE
 COMMUNICATIONS INTO THE AMERICAN HOME, THAT JCET SHOULD HELP WITH STRATEGY TO USE
 COMMUNICATIONS MEDIA IN ATTACKING SOCIAL PROBLEMS, THAT JCET SHOULD JOIN WITH OTHER AGENCIES TO
 BRING ABOUT COOPERATIVE PRODUCTION OF INSTRUCTIONAL MATERIALS, AND THAT JCET SHOULD URGE THE
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 IN THE USE OF TELECOMMUNICATIONS. (MF) ERIC
- 4987C *** PARKER, LORNE A. 4987C
- SCA - A NEW MEDIUM
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- // ETN-SCA SCA-REGULATION FM-RADIO WHA-RADIO WISCONSIN-UNIV EXTENSION-UW
- *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 1953. 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 PROVIDES 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 V 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
 VERSION OF THIS BOOK CAN BE FOUND IN THE AUTHOR'S ARTICLE IN EDUCATIONAL BROADCASTING REVIEW.
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- 8700C *** 8700C
- DIALING UP A DIALOGUE ON CABLE
- BROADCASTING 80,22, P45, MAY 31, 1971
- // OVERLAND-PARK KANSAS HOMEBUND-CHILDREN SHOPPING CATV-TWO-WAY TELECABLE-INC
 VICOM-MANUFACTURING
- BEGINNING JUNE 23, 1971, AN EXPERIMENT WILL BE CONDUCTED IN OVERLAND PARK, KANSAS, WHICH WILL TEST
 POSSIBLE USES OF TWO-WAY COMMUNICATION OVER CABLE TELEVISION. USING A NEW TYPE OF TERMINAL
 UNIT, THE EXPERIMENT WILL INITIALLY CONCENTRATE ON HOME INSTRUCTION FOR DISABLED CHILDREN. THE
 DISABLED CHILD AND HIS TEACHER WILL BE ABLE TO SEE EACH OTHER VIA TELEVISION CAMERAS AND THE
 CHILD WILL RAISE HIS HAND BY PUNCHING BUTTONS ON THE TERMINAL. TELECABLE, INC., WHICH WILL
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