REFORT RESUMES

FAR WEST LABORATORY FOR EDUCATIONAL RESEARCH AND DEVELOPMENT, MARCH 1, 1967.

FUE DATE 1 MAR 67

EDRS FRICE MF-\$0.50 HC-\$2.68 67F.

DESCRIPTORS- CURRICULUM, COMMUNICATION PROBLEMS, DEVELOPMENTAL TASKS, *DECISION MAKING SKILLS, *EDUCATIONAL RESEARCH, EDUCATIONAL PLANNING, EDUCATIONAL METHODS, *INSERVICE TEACHER EDUCATION, MEASUREMENT, OBJECTIVES, OPERATIONS RESEARCH, PROGRAMS, PROJECTS, RESEARCH, SCHOOL PERSONNEL, *TEACHING TECHNIQUES, TEACHER QUALIFICATIONS,

FUTURE EDUCATIONAL RESEARCH FLANNED BY THE FAR WEST LABORATORY FOR EDUCATIONAL RESEARCH AND DEVELOPMENT IS THE SUBJECT OF THIS REPORT. ONE OF THE PROJECTS CONCERNED INSERVICE TEACHER EDUCATION. THE FOUR MAJOR AREAS OF EMPHASIS IN THIS PROJECT WERE BASIC TEACHING TECHNIQUES, TEACHING IN NEW PROGRAMS, TEACHING NON TYPICAL GROUPS, AND TEACHING NEW CURRICULA. IMMEDIATE, INTERMEDIATE, AND LONG RANGE OBJECTIVES ARE DESCRIBED, AS ARE THE COMPONENTS IN THE AFGREMENTIONED FOUR AREAS OF EMPHASIS. CHARTS INDICATE THE SCOPE OF THE TEN YEAR PLAN. THE OTHER PROJECT WAS A COMMUNICATION PROGRAM IN WHICH THE OBJECTIVE WAS TO CONDUCT RESEARCH, DEVELOPMENT TASKS, AND OFERATIONS RESEARCH THAT WOULD AID SCHOOL FERSONNEL AS THEY MADE DECISIONS IN THE ORGANIZATION AND OFERATION OF SCHOOLS. SHORT TERM AND LONG RANGE COJECTIVES ARE ALSO FRESENTED. SEVEN OTHER PROJECTS CONCERNING EDUCATIONAL METHODS, RESEARCH, TEACHER QUALIFICATIONS, COMMUNICATIONS FROELEMS, CURRICULUM, AND MEASUREMENT ARE DISCUSSED AS A CONCLUSION TO THE REPORT. (JS)



U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSC. OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.



PROGRAM PLANS MARCH 1, 1967

PUBLISHED BY
FAR WEST LABORATORY FOR EDUCATIONAL
RESEARCH AND DEVELOPMENT
1 Garden Circle, Hotel Claremont, Berkeley, California 94705

THE FAR WEST LABORATORY FOR EDUCATIONAL RESEARCH AND DEVELOPMENT is a regional educational laboratory, established through a Joint Powers Agreement in February, 1966. Present signatories include the Regents of the University of California, the California State Board of Education, the Trustees of the California State Colleges, the County Superintendent of Schools of the County of Monterey, the Board of Education of the San Francisco Unified School District, the Regents of the University of Nevada, and the Nevada State Board of Education.

Work reported herein was performed pursuant to a contract with the U.S. Department of Health, Education and Welfare, Office of Education. This publication should not be reproduced, except in its entirety, without prior consultation with the Far West Laboratory for Educational Research and Development, 1 Garden Circle, Hotel Claremont, Berkeley, California 94705 (Telephone: 415-841-9710).



PROGRAM PLANS FOR FAR WEST LABORATORY FOR EDUCATIONAL RESEARCH AND DEVELOPMENT March 1, 1967



SUPPLEMENTARY REPORT OF LABORATORY ACTIVITIES

Ι

BASIC ORGANIZATIONAL DEVELOPMENT

Background Information

When the Far West Laboratory for Educational Research and Development entered its first operational period June 16, 1966, it was committed to five major program areas. These areas, defined in a general way in the developmental reports submitted to the U. S. Office of Education, represented a commitment to the region by the Board of Directors that the Laboratory would develop a programmatic focus in each of these areas. The focus in each case would be selected from among the major program components which were to be identified by the Executive Panel in accordance with the decision-making process outlined in the <u>Progress Report</u>, dated March 31, 1966.

In addition to the five program areas, the Laboratory was also committed to conduct six projects which were thought to have the potential for providing valuable input to the program decision-making process. These projects in general would give the staff and Executive Panel more precise information about the present state-of-affairs in the five program areas. A seventh project, the Measurement Project, was formulated and its first phase commenced in December, 1966.

The report submitted to the U. S. Office of Education on September 15, 1966, contained a network plan showing the program planning strategy. In each of the



program areas, as a first step toward program development, there was to be a situation review conducted by the staff and reported in the form of a position paper for the consideration of the Executive Panel. The Panel was to discuss the major program components, assign relative priorities to them, and select a program focus for each of the program areas. The time schedule proposed in the September report specified that the program focus decisions would be made by June, 1967, in time to prepare budgets to be submitted during the summer of 1967.

The Board of Directors, the Executive Panel and the staff of the Far West Laboratory for Educational Research and Development were responsive to the commentary of the Committee convened by the U. S. Office of Education which reviewed the progress of the Laboratory October 10, 1966, as reported in Dr. Bright's letter of November 29, 1966, to the President of the Board of Directors. The Laboratory has made substantial progress in the definition of a primary and secondary program, and is developing concrete interrelated plans which specify strategies to accomplish the program objectives. The Laboratory has accelerated its schedule so that these decisions have been made several months earlier than previously schedulad, and it also chose to narrow its program effort to a primary and secondary program. These were "hard decisions," but the Executive Panel, broadly representative of the resources of the region, demonstrated that they had developed sufficiently effective procedures for considering alternatives.

Organizational Plan and Budget Development

In preparation for the January 26 and 27 meeting of the Executive Panel, the



staff prepared six alternative mission statements. These proposed missions were, in a sense, major components of one or more of the program areas. They represented staff judgment as to what would be possible to accomplish, considering the findings of the situation reviews. These alternate proposed missions also reflected the input to the Laboratory from the completed or partially completed projects. The Executive Panel did select a primary mission and a secondary mission at its January meeting and has recommended that the Board of Directors, on March 2, 1967, formally adopt their recommendations. With the development of specific plans for achievement of the objectives identified in the mission statements, these will become the primary and the secondary programs of the Laboratory. A more detailed description of these emerging programs and an analysis of the decisionmaking process involved by the Executive Panel in focusing upon them is presented in Part II. Also, there is a discussion of the planned re-direction, where necessary and desirable, of each of the projects currently in progress that were started before the selection of the primary and secondary missions of the Laboratory. Certain project activities will be redirected to become integral parts of one of the two programs, and will lose their identity as a project. Others will retain their identity as projects because they include activities leading to a product for which there is an acute need. These later projects will be considered auxiliary projects which contribute to the Laboratory's total effort, but are not direct components of either of the two programs.

The organizational plan and the accompanying budget were developed with the point of view that the budget should be based upon an analysis of the cost of

implementing the programs of the Laboratory.

Part III of this presentation shows an organization chart that represents the personnel commitment to the primary and secondary missions. This is accompanied by an activity analysis showing the budget level proposed for (1) the primary mission, (2) the secondary mission, (3) program planning and evaluation, (4) auxiliary project, (5) Laboratory development and (6) Laboratory maintenance.



PROGRAM DEVELOPMENT

The Decision-Making Process

The process of selecting a primary and a secondary mission for the Far West Laboratory for Educational Research and Development was achieved through the systematic application of the decision-making process described in the developmental reports. Crucial to the process is the work of the Executive Panel which is charged by the Board of Directors with determining the programs of the Laboratory and for setting priorities among program components. Commencing in September, 1966, the staff submitted fou position papers to the Executive Panel based upon situation reviews in the following program areas: Full Education, Curriculum, Instructional Methods and Teacher Education. The fifth program area, Communication, while not the subject of a position paper, was discussed by the Panel on the basis of the Phase I Report of Project D, the Communication and Utilization Study, conducted by Lockheed Missiles and Space Company.

At the same time that the staff was preparing position papers for the Executive Panel deliberation, the six rojects described in the developmental report were getting underway. One of the projects (the Conference on Instructional Methods) provided visible input for the situational review and position paper on Instructional Methods. The Communication Project Phase I Report was essentially a situational review of the Communications program area and the report represented the equivalent of a position paper. The other projects



were not far enough along to be made directly significant inputs but both the conference on Curriculum and the work on Methods of In-service Teacher Education have indirect effects upon the content of these papers. Furthermore, by the time of the December meeting of the Executive Panel, the projects had moved sufficiently far that they were valuable to the staff in the preparation of the six alternative missions which were being developed for the consideration of the Executive Panel at the January meeting.

While it is true that the six alternate proposed missions differed in the extent to which they proposed a more narrowly defined statement of objectives, they all represented proposed programs more narrowly focused than were the five program areas described in the developmental reports.

The alternate proposed missions developed by the staff for consideration of the Executive Panel at its January meeting were as follows:

Assessment, which proposed that the Far West Laboratory for Educational Research and Development develop a series of measures, both conventional and unconventional, that would determine the effectiveness of an institution's teacher training program by evaluating the performance level of the institution's graduates.

Educational Change, which proposed that the Laboratory undertake a program of research, development and dissemination focusing on the analyses and facilitation of educational change with primary emphasis on the personnel aspects of system change.

Communications, which proposed that the Laboratory conduct those research, developmental and operational tasks that will bring into existence effective



use of information about options available to school personnel as they make decisions in the organization and operation of schools.

Goals of Education, which proposed to aid in the development of a systematic approach to the educational process wherein the major goals of education serve as the determinants for specific pedagogical procedures. Interaction, which proposed that the Laboratory study the interaction among curriculum, instructional methods and technolobies in education and develop effective patterns for the use with different pupil groups in different school settings, and to provide the schools with information and procedures that will help combine these major factors into workable and effective educational systems.

Teacher Education, which proposed that the Laboratory improve the effectiveness of classroom teachers by developing, evaluating and implementing programs
of in-service education based upon models and/or simulations of teacher
behavior and aimed at essential skills and knowledge related to basic
teaching performance, teaching non-typical pupil groups, teaching in new
educational programs and teaching new curricuia.

The mission statements were each presented to the Executive Panel for discussion at the meeting held January 26 and 27, 1967. Following general discussion, members of the Panel evaluated each mission in terms of the following:

- Importance
- Focus
- Breadth of tasks
- Pay-off
- Feedback



- Compatibility with resources
- Organizational involvement
- Fundamental problem
- Potential duplication of effort
- Funding feasibility
- Breadth of application
- Political feasibility
- Balance of tasks
- Overall risk

After the Executive Panel members evaluated each of the proposed missions, they ranked them in order of preference first for primary mission and then for secondary mission for the Laboratory. These were tabulated, as were the rankings of a similar evaluation by members of the Laboratory program staff. There was substantial agreement both among Panel members and among staff members that the primary mission should be Teacher Education and that the secondary mission should be Communication. The Executive Panel then took formal action recommending these to the Board of Directors.



The Teacher Education Program

Background

Introduction - The primary mission of the Far West Laboratory falls under the Teacher Education Program area. The initial program will lead to the development of a series of inservice education packages built upon the recent research findings of the Stanford Research and Development Center and applying microteaching and other promising innovations. This paper describes this program, and the mission it is designed to achieve as well as providing the rationale for its adoption.

Bistory of the Problem - Providing effective inservice education has historically been one of the most difficult problems faced by educators and one which has rarely been solved adequately. With a few exceptions inservice training programs tend to be stereotyped and unimaginative. In California, over half of the school districts have no inservice programs beyond faculty meetings and teacher institutes (California Teacher's Association, 1959). Since most faculty meetings are concerned with administrative matters (Wood, 1959) and most institutes are concerned primarily with orientation and plans for the coming year (Landers, 1954), it may be seen that little effective inservice education is available in such districts. Yet, there is some evidence to indicate that well planned inservice programs can bring about significant gains in pupil achievement (Mork, 1953).

Educators are generally aware of the deficiencies of inservice education, but few districts have the resources to develop adequate programs. In the recent series of curriculum conferences conducted by the Laboratory, Dr.



Menesini reports that inservice education was perceived by participants as their most pressing problem. Doubts about the adequacy of current inservice programs are also reflected in the fact that nearly half of California's School Districts will not accept inservice training, travel, or vocational experience as a substitute for college credits on salary schedules (California Teacher's Association, 1965).

Supervision is often regarded as an aspect of inservice training, but in its usual form it is severely limited (Allen & Ryan, 1966). Among the deficiencies of typical supervision are the following:

- Supervision focuses upon evaluation instead of education and since it is often tied to contracts and tenure, it is psychologically threatening to most teachers.
- Supervisor's remarks are often couched in general terms and educational platitudes that the teacher cannot translate into specific action.
- The supervisor is often not trained in the teacher's subject matter area.
- The supervisor's remarks are often given in a frame of reference that the teacher does not understand or agree with. Teachers and supervisors often disagree in their recollections of what actually happened during the lesson.
- Supervisor's evaluation and feedback is often delayed.
- The teacher rarely has an opportunity to try out immediately the supervisor's suggestions.

General Statement of the Problem to be Attacked in the Teacher Education Program Microteaching as developed in the Stanford Teacher Intern Program offers many
significant advantages as a tool for inservice education, and the Laboratory plans



to attack the inservice education problem in this program through the use of microteaching and similar approaches. In a typical inservice lesson of the sort that would be developed in this program, the following sequence would be experienced by the teacher:

- The teacher would study instructional material on a specific skill such as reinforcing desirable pupil responses. Such material could be presented by any of the usual communication media such as textbook, programed text, motion picture, video tape, audio tape, etc.
- The teacher would then prepare and teach a short lesson to a small group of pupils.* This lesson would be videotaped.
- Immediately after the lesson, the teacher would watch the videotape playback of the lesson, focusing her attention on use of the skill in question.
- Immediately after the playback, the teacher would watch another videotape in which a model teacher would demonstrate the same skill. Remarks would be dubbed onto the audio track to prompt the teacher on important aspects of the model's behavior.
- Immediately after viewing the model tape, the teacher would reteach her lesson in order to reinforce the learned skill.

The effectiveness of this approach has already been demonstrated by research in the Stanford Intern Programs. It has been found significantly more effective than use of a well trained supervisor (Orme, M. E. J., 1966). The advantages of this approach for inservice training appear to be as follows:



^{*} For those few skills where a large group of pupils is needed to teach the skill effectively, such groups would be employed.

- No supervisor is used, thus, the teacher is not threatened.
- Since the model is videotaped, it is possible to develop a completely self contained package that can be used in any school by supplying the package and loaning the school a portable camera-videotape recorder-monitor.
- The training focus is on one specific skill at a time.
- The teacher gets immediate feedback from the videotape replay.
- The teacher gets immediate reinforcement from the reteaching step.
- Throughout the sequence the teacher is actually practicing the skill, i.e. learning by doing.

Relationship to Laboratory Program Areas - The original Laboratory plans included five program areas: Teacher Education, Instructional Methods,
Curriculum, Full Education, and Communication. The proposed teacher education program will have four major thrusts: basic teaching skills, teaching in new programs, teaching non-typical groups, and teaching new curricula. The first two of these areas fit into the original instructional methods program area, the third into the full education area, and the fourth into the curriculum area. Since inservice education is an effective way to communicate new ideas and get them into the classroom, the program will have significant outcomes that support the communication area.

In summary, the Laboratory's primary mission is directed primarily at teacher education, but has major thrusts in the other four program areas of the Laboratory as well.



General Mission Statement

The mission to be achieved by the Teacher Education Program is to improve the effectiveness of classroom teachers by developing, evaluating and implementing programs of inservice education based upon models and/or simulations of teacher behavior and aimed at essential skills and knowledge related to basic teaching performance, teaching nontypical pupil groups, teaching in new educational programs, and teaching new curricula.

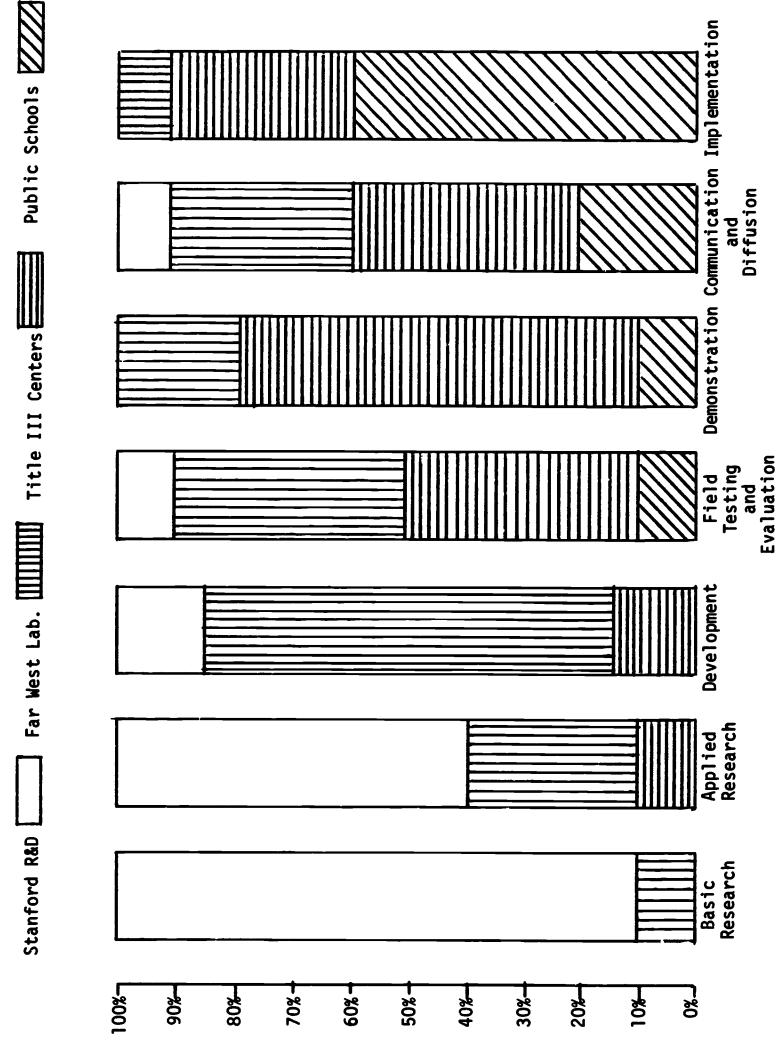
Relationship to Programs of Other Organizations - The Teacher Education Program will involve a close partnership between the Stanford Research and Development Center, the Far West Laboratory, selected Title III Centers and schools in the region. The basic research evidence and theoretical rationale developed at Stanford on the use of microteaching and other techniques for preservice teacher education will be applied to the development of the inservice packages at the Laboratory. A well integrated team effort involving the Stanford Research and Development Center, the Far West Laboratory and Title III Centers would assure a thorough coverage of all aspects of the research and development effort in the area of inservice education (see figure on Page 14).

The cooperating group of Title III Centers and their affiliated public schools would contribute to development, field testing, demonstration and implementation of the inservice training packages. It is anticipated that this program will also involve several colleges and universities in specific activities in which they have special interests. For example, San Jose State and the University of the Pacific might work with the Laboratory on the elementary school teaching skills packages, while the University of California



ESTIMATED CONTRIBUTION OF COOPERATING ACTIVITIES TO ACHIEVEMENT

OF DIFFERENT ASPECTS OF THE TEACHER EDUCATION MISSION





might play a major role in developing and testing packages for training teachers of culturally deprived pupils.

Objectives: Specific State of Affairs to be Realized

<u>Immediate</u> (to December 1, 1967) - The immediate objectives to be achieved in the Teacher Education Program will be as follows:

- Laboratory staff members will have developed a thorough knowledge of the present state of the art in preservice and inservice education and will have prepared a monograph that pulls together the work in this area into a comprehensive critical review.
- An inservice education package that improves the basic teaching skills needed in conventional secondary classrooms will be in operational use in schools of the region.
- A video tape describing and illustrating this package will have been prepared and shown over educational TV channels in the region and made available nationally to aid in dissemination. A similar video tape will be prepared for each subsequent package.

Intermediate - The intermediate objectives to be achieved would be:

- An inservice education package that improves the basic teaching skills needed in conventional elementary school programs will be in operational use in schools of the region.
- An inservice education package that improves teacher skill in solving the major teaching problems encountered in teaching culturally deprived urban Negro children in secondary schools will be in operational use in schools of the region. This package could be



- developed in cooperation with the University of California Internship

 Program for teachers of culturally deprived children and could be used
 in this program as well as in inservice programs.
- An inservice education package that trains teachers in the skills required to function effectively as members of a secondary school teacher team will be in operational use in schools in the region.
- A series of televised lessons designed to train teachers to present the new aspects of one of the new Science Curriculum Projects will be in operational use in schools in the region that are adopting this curriculum. This package will also contain tapes or films showing a model teacher presenting each new aspect of this curriculum.

 These could be used not only in the microteaching package, but also could be shown to pupils when the teacher did not feel sufficiently prepared to offer these aspects of the curriculum herself. A similar effort underway at the University of Wisconsin Research and Development Center is showing promising results.

Long Range - The long range objectives to be achieved would be:

- A procedure will be available for identifying the critical teacher skills and behavior patterns in any teaching situation, and developing those skills to a satisfactory level of effectiveness through an inservice education program.
- A series of inservice education packages will be in operational use in each of the following areas:



- <u>Basic teaching skills</u>. Packages could be developed in such areas as: (1) Preschool instruction, (2) Primary grades instruction, (3) Intermediate grades instruction, (4) Junior High School Instruction, and (5) Secondary School instruction.
- Teaching non-typical student groups. Packages could be developed for such groups as: (1) Culturally deprived urban Negro high school students, (2) Culturally deprived rural Mexican-American elementary school pupils, (3) Rural Indian elementary school groups, (4) Gifted secondary school students, and (5) Slow learning secondary school students.
- Teaching in new educational programs. Packages could be developed in such areas as: (1) Teaching in a team teaching system, (2) Relating Classroom teaching to televised instruction, (3) Relating classroom teaching to programed instruction and (4) Teaching in the Individually Prescribed Instructional Program.
- Teaching new curricula. Packages could be developed that would train the teacher in the most difficult aspects of teaching a new curriculum. Among curriculum packages that could be developed are included: (1) School Mathematics Study Group (SMSG), (2) Science Curriculum Improvement Study, (3) Greater Cleveland Social Science Program, (4) Roberts' Linguistics Approach to Teaching English, (5) Richards' Threshold to Music, and (6) Biological Sciences Curriculum Study (BSCS).
- Sample lessons from the curriculum packages could also be used by teachers who are considering a new curriculum for adoption. The



experience of microteaching one or two sample lessons would greatly help the teacher answer three critical questions:

(a) Can I teach this curriculum? (b) Do I like the content and the way it is presented? (c) Is this curriculum appropriate for my students?

Present State of Affairs

Preservice Education of Teachers - Teacher education may be divided into the two major areas of instructional skills and subject matter competency; and the two levels of preservice and inservice. In most preservice programs, the skills requirement is met by a combination of formal education courses and practice teaching. The effectiveness of such programs varies, but is generally low. Subject matter competency is a less difficult problem in preservice education, since acquisition of knowledge is a less difficult task than development of complex skills. This work is usually in the hands of the appropriate academic department.

Thus, although variability in quality is great in both areas from college to college, it is probably fair to say that skills preparation in preservice programs is generally much weaker than subject matter preparation.

Inservice Education of Teachers - Teacher needs for inservice training in subject matter generally differ somewhat from preservice needs. Since most teachers leave the college or university with a reasonably adequate knowledge of subject matter, their needs in this area develop as changes take place in their fields. New curricula usually introduce subject matter concepts that



were not taught when many of today's teachers were in training. For example, a mathematics teacher who was trained in the 1940's might be totally unfamiliar with the "set" concepts that play a major role in most "new mathematics" programs. Thus, the major inservice educational need in the content area is for programs that cover those specific aspects of a new curriculum that are new or unknown to teachers having a general competence in the subject.

In the skills area, most teachers have developed some skills through experience. Such learning is usually inadequate since skills are often developed without any significant help from supervisors or other teachers and without reference to models who have mastered the skills. Thus, unless the teacher has been trained in one of the few preservice programs, such as the Stanford University Intern Program, that focus on the development of basic teaching skills, she will usually have need of inservice training in this area.

Many teachers, however, need more than basic teaching skills in order to function effectively. Teachers of atypical student groups, for example, must develop behavior patterns and deal effectively with problems that are unique to teaching situations in which a specific pupil group is being taught. With a few exceptions, such as the University of California program for training teachers of culturally deprived children, the teacher receives no preservice training that prepares him to cope with these unique problems. The vot majority of teachers of atypical pupil groups are in desperate need of inservice training that can help them develop the skills they need.



The teacher who finds herself in a new instructional situation also requires inservice education if she is to develop the behavior patterns needed to function effectively. Many educational innovations that are becoming increasingly important in today's schools such as team teaching, televised instruction, individualized instruction, and computer assisted instruction require the teacher to use skills, and assume roles that were not even thought of ten years ago.

Tasks to be Done over a Ten Year Period

The following charts sketch out the tasks to be accomplished in the Teacher Education Program over the next 10 years. Each task is described briefly and the anticipated time schedule and personnel commitments are given.

It will be noted that the development, field testing and operational implementation of the different inservice education packages prepared under the Teacher Education Program will all follow the same general approach. It is anticipated, however, that there will be some differences in the time and effort required to produce a satisfactory package in different areas, and these differences are reflected in the time schedules and the amount of contract and consultant help that the Laboratory has scheduled for the various packages.



TEACHER EDUCATION PROGRAM -- TEN YEAR PLAN

COMPONENT A
BASIC SKILLS INSERVICE EDUCATION

818 C	24/1/5	BASIC SKILLS INSERVICE EDUCATION	WCE E	2227	Ş						-	5 - -	1267 -	§ -	į .	
2	<u>\$</u> -	•	65 -	1991	Tible " 1972 1	1973	4761	5	<u> </u>	TASKS	MOTAROGA	UPE B CENT 180 CENT LYMOUD	\$70000	TOMPTHO CHBULTANT		MIDWATEN
										deview research literature on inservice training, microteacning and simulation tecnniques and teacning sails.	+	1		+-	_	31
			_	_						Develop a microteaching package for inservice training (MPII) of secondary teachers on two basic teaching shills, i.e. proving and reinforcement based on Stanforo research program,		╁	×	×	+-	ı
						_				Conduct extensive field texting of masic shills package to determine most effective mays to Implement, degree of generalizability across subject areas, etc.	×	×	×	×	+	1
										Develop and distribute viero tape describing the basic sails parhage for use by educational T. Clanicis.	×	\vdash	1	×	+=	1
			_							Conduct extensive field testing and applied field research on secondary basic skills 46;7 to determine how changes in package relate to changes in teacher and pupil behavior.	×	×	×	+	+	
										Put basic shills Secondary Teacher MPIT into operational use in secondary pilot schools of region; raid revisions indicated by operational experience.	×	×	×	+	+	1
										Put besic skills Secundery Teacher Will into operational use throughout the Laboratory region.	×	×	×	+	+	I
										Evaluate basic skills Secondary Teacher (PIT by Independent research agency and recomment revisions.		╀╌		×	+	1
										Contract with commercial publishers for publication and national distribution of waste smills Secondary Teacher APIT,	×	+		╁	 *	×
										Put basic skills Secondary Szacner dell into operational use nationally.	-	\vdash		+-	×	×
										Jevelop microtraching package for inservice training (4017) of elementary teachers in basic teaching skills.	×	-	×	\vdash	 ×	×
										field test, revise, and prupare elementary teachers basic smills Well for aperational ur	×	×	×	×	-	1
										Jevelop and distribute vices tape on elementary teachers basic skills "Pil for use b, coucational 1 Lunnels.	×	-		×	+	1
										Put basic skills elementary teacner . PlI into operational use in pilot scnools.	×	×	×	 	₽-	1
										Put basic skills elementary teacner APIT into operational use inrougnout Laboratory region.	×	×	×	-	├-	í
										Test Secondary basic skills for preservice use in colleges of the region.	×	×	É	×	+	i
										Evaluate masic shills elementary teacher MPIT by independent research agencies and recommend revisions.			Ĺ	×	├	,
					,_					Contract with commercial publishers for publication and national distribution of basic shills elem. teacher Ppil	×	-		-	×	×
1										Put basic saills elementary teacher MPIT into operational use nationally.		├		-	×	~
					_					identify and define other critical basic teaching skills and behaviors inrough ouservation, review of literature, and work with consultants.	×	×		×	 	
										Develop a series of 6 MPIT packages, covering 6 to 8 basic shills for teachers at the primary, intermediate and secondary levels.	×	×	×	×	\vdash	
										Combuct extensive field testing and applied field research on the 6 wasic skills MPIT packages.	×	×		-	╀	
										Put the 6 besic skills HPIT peckages into operational use in pilot schools.	×	×	×	+	\vdash	
										Test elementary basic skills sibil for preservice use in colleges of education.	×	×	Ĺ	×	\vdash	l l
										Evaluation of 6 basic saills of 1917 packages by independent research agencies and recommendation for revision.	-		Ĺ	×	├-	
										Contract with commercial publishers for publication and national distribution of a basic skills 1917 package.	×	<u> </u>		+-	×	×
												}		-	×	₩
	TAL PART	Annia	The Parent	The France	-	***					1	$\frac{1}{2}$		4	4	,

THE, TASK, TALENT ANALYSIS OF TRACHER EDUCATION PROGRAM



COMPONENT B INSERVICE EDUCATION FOR TEACHERS OF NONTYMEAL GROUPS

PERSOR

TYPES OF

COMMENCIAL × × × × × × × × × × × × TOMPROS × × × × × × × × × × SHEWS IN CENTERS × × × M & D CENTER × Put Will for teachers of culturally deprived urbon legro high school students into operational use nationally. Put the 3 MPIT packages for teachers of nontypical groups into operational use throughout Laborato-y region. Conduct extensive field testing and applied field research on the 3 IPIT for teachers of nontypical groups. Study leaviners of urban Magne culturally deprived secondary school students to identify and define critical ski", and Jenavines needed to teach this group. Evaluation of APIT for teachers of culturally deprived Mexican-American nign scopel students by independent research agencies and recommendation for revision. Arviem literature on teacning mentypical groups and to specific skills meeded by teachers of such groups. Evaluation of the 3 WPIT packages for teachers of nontypical groups by independent research agencies and recommendation for revision. Study teachers of culturally deprived Mexican-American secondary school students to identify and define the critical skills and behaviors needed to teach this group. Study teachers of non-typical student groups (such as culturally deprived elementary Angro and Marican-American, Indian pupils, scrool dropouts, etc.), belett 3 where interrice training appears most neceded, and identify and define the critical stills and behaviors needed to mass, these graups. Contract with commercial publishers for publication and national distribution of the 3 MPIT packages for teachers of nontypical groups. but MpIT for teacners of culturally deprived Mexican-American nign school students into operational use in pilot schools. but MPIT for teachers of culturally deprived Mexican-American high school students into operational use throughout the Laboratory region. Put 1917 for teachers of culturally deprived Apricon-American high school students into aperational use nationally. Conduct extensive field testing and applied research on APII for teachers of culturally deprived uruan Vegro High school students. Conduct extensive field testing and applied field research on MPIT for teachers of culturally deprived Nexican-American high school students. But WPIF for teachers of culturally deprived urban Mayro high school students into operational use in pilot schools. Evaluation of APIT for teacners of culturally deprived urban Negro high school students by Independent research agencies and recommendation for revision. Contract with commercial publishers for publication and national distribution of MPIT for toochers of culturally deprived Mexicon-American nigh school students. but Will for teachers of culturally deprived urban Regro nigh schools students into operational use throughout the Laboratury region. Contract with commercial publishers for publication and national distribution of MPIT for teacners of urban Magne nign school students. Put the 3 MPIT packages for teachers of nontypical groups into operational use in pilot schools. Jevelop MPIT for teacners of culturally deprived Mexican-American serondary school students. But the 3 WPIT packages for teathers of nontypical groups into operational use nationally. Jevelop a series of 3 MPIT packages for teachers of the nentypical groups selected. evelop 1911 for teachers of culturally deprived urban Magra nign school students. 5 5 Z E 1973 TIME **5 5**

ME, TASK, TALENT AMALYSIS OF TEACHER EDUCATION PROSESS

Commission of the commission of a second commission of the commiss

For West Laboratory for Educational Research and Day



CONTINUE EDUCATION FOR TEACHERS ENTERNO NEW EDUCATIONAL PROGRAMS

THE THE TOTAL TOTA	-		i									_	_	
Mattheway of the state of the s														- S
tracture relized to inservice training of teacurs for team teacning program, but tracture relized stills and beauning. The critical stills and beauning, beaution offectively in a team beaching program, and teacurs successful to the critical stills and beautifus needed to feature into group and spills that the stills and beautifus needed to faction into group in a team beaching program, and teacures in a team teaching program into operational use in pilet schools. For teachers in the skills and purpor into operational use throughout the teachers region. For teachers in a team teaching program into operational use nationally. For teachers in a team teaching program into operational use nationally. Breature related to intervice training of teachers for jel program, and the teachers in a team teaching program into operational use national and interview surticipating teachers. For teachers in the skills needed to function affectively in an jel program. For teachers in the skills needed to function affectively in an jel program. For teachers in the skills needed to function affectively in an jel program. For the programs into operational use torruphout the scorator, region. For teachers in the secretional use torruphout the scorator, region. For teachers in the secretional use torruphout the scorator, region. For teachers in the secretional use torruphout the scorator, region. For teachers in the secretional use torruphout the scorator, region. For teachers in the secretional teachers and interview of region of the teachers in the pergrams into operational for teachers in the secretion of region of the scorator. For teachers in the secretional programs selected into operational use incours or teachers and returning the 3 selectional programs selected into operational use incourse ontering to a selectional program selected into operational use incourse. For teachers of the projectional programs selected into operational use incourse. For teachers of the publication and netional distribution of fells f	•	1970	6	1072	2	ğ -	£ -	£ -	TASKS	ADDAMPORE MINIORIA MI	20 E 37W	STOOKS	MUSTABLE	W 240110/ W3W 250K
The tracers in the stills medea to function offectively in a team teaching region. If the desting and spiled field research on vell for teachers in a team teaching program. If the desting and spiled field research on vell for teachers in a team teaching program. If the desting and spiled field research on vell for teachers in a team teaching program into operational use throughout the teaching program into operational use throughout the teachers region. For teachers in a team teaching program into operational use throughout the teachers in the teaching program into operational distribution of Vell for teachers in a team teaching program into operational distribution of Vell for teachers in a team teaching program into operational distribution of Vell for teachers in against the program into operational distribution of Vell for teachers in against the satills and behaviors media to teachers in the stills and personal use to the tracers. If the teachers in the ability the teachers we to teach the tracers of the program into operational use to thoughout the tracers and the program into operational use to thoughout the tracers and the program into operational use to the tracers of the program into operational distribution of Fell for teachers in the stills and define the critical stills and behaviors needed to teach and returning the 3 educational program selected into operational use in pilot soughting the 2 educational program selected into operational use in pilot soughting the 2 educational program selected into operational use into returning the 3 educational program selected into operational use into returning the 3 educational program selected into operational use into returning the 2 educational program selected into operation of Fell for teachers entering the prolitering and									literature related to inservice training of teachers for team teacning programs.	$\overline{}$	_ 1	+	1	T cc
theid testing and satila needed to function effectively in a team teacning pre- field testing and satilated field research on Will for teachers in a team teacning ors in a team teacning program into aperational use in piles schools. For teachers in a team teacning program into aperational use inreageast the teachers aften of cellusting agency. For teachers in a team teaching program into aperational use nationally. Evaluating and application and national distribution of Will for teachers bytem. For in a team teaching program into aperational use nationally. Evaluating and interview training of teachers for IPI program, and the teaching. Evaluating and applied field research on MPIT for teachers in IPI program. For in IPI programs into aperational use in piles schools. For teachers in the skills needed to function effectively in an IPI program. For in IPI programs into aperational use to programs of teachers in IPI programs. For in IPI programs into aperational use to programs for teachers in IPI programs. For in IPI programs into aperational use to programs in the teachers. For the teachers in the skills programs by independent research agency and revision Lease or teachers in IPI programs into aperational use nationally. For in IPI programs into aperational use nationally. For in IPI programs into aperational use nationally. For in IPI programs into aperational use national distribution of Polit for teachers entering the 3 couciest to function effectively in the 3 programs salected. For desirable into applied field research on WPIT for teachers entering the 3 coucies of the teachers entering the 3 coucies and entering the 1 described and netional distribution of MPIT for teachers entering the 1 described and netional distribution of MPIT for teachers entering to reaccurers and netional distribution of MPIT for teachers.									tames, interview successful and unsuccessful tear teachers and study team teaching roles one the critical skills and Dehaviers needed to teach this group.	×	1	×	×	Τ
field testing and applied field research on "Bit for teachers in a tean teaching ers in a team beaching program into operational use throughout the Laboratory residuals of evaluating applies into operational use throughout the Laboratory residuals of evaluating application and national distribution of "Bit for teachers payen," in the team beaching program into operational use mationally. For teaching meditable to intervice training of teachers for IPI programs, and the teaching program into operational use mationally. For them teaching program into operational use nationally. For them teaching program into operational use in pilot schools. For the teachers in the skills necessary described to teach in unit Lype on J. and define the critical skills and menations of the teachers. For the teachers in the skills necessary and interview and interview carriers and the critical skills and behavior, region. For the teachers in the skills necessary and retired the catorator, region. For the teachers in the partitional use national distribution of MPIT for teachers are all to programs into operational use national distribution of MPIT for teachers are the teaching approxy. For the teaching approxy teaching, the John High School Project, stendard collection. For the teaching the 3 educational programs selected into operational use in priot social transfers and applied field research on WPIT for teachers entering the 3 educational programs selected into operational use in priot social positions of the programs of the programs and national distribution of MPIT for teachers and research or resembles elected. For the teachers and the particular and national distribution of MPIT for teachers and residents and national distribution of MPIT for teachers and national distribution of MPIT for teachers.									train teacners in the skills needed to function	×	Ë	×	×	T
Any Will for kencers in a less becomes to we have the propose into specialism and in print scores special and retained. Solding the recommendation of whiteless section propose into specialism of will for kencers in a less section propose in the integration of will for kencers in a less section propose in section and will selected and retained. Particle in the teachers in a less section propose in section propose in the section of will for kencers in the section of will for kencers in the section of will retain and will section of will for kencers in the section of will section of will for kencers in the section of will section of will for kencers in the section of will section of will for kencers in the section of will be section of will section of will be section of will section of will be section of sectio									field testing and applied field research on 1917 for teachers in a team teaching	×	×	+-	×	T
Consisting will fee become in a loss become and any office control of a loss become and any office and any office control of a loss become any office and any office any office and any office and a									ners in a team	×	×	×	I	Т
Contest title desired in the season of the season and a feature of realization of altered distriction and material and material and material statement reserve seasons in a Contest title season in a Co									in a team teacning program into operational use	×	┿	×		T
An will will be therefore a the teachers in a teacher and washed distriction of military of the teachers in a teacher and the teachers and the teachers in the teachers and teachers and the teachers and teachers									Evaluation of VPIT for teacners in a team teaching program by independent research agencies and regissons based on recommendations of evaluating agency.		╅	×	1	T-
And the first case of the case					•				#11 for teachers	×		\bot		×
Aberty to the light of the control o									Put WPIT for teachers in a team teaching program into operational use nationally.			L	İ	×
Annual power to large to the project in the stills and annual recent in the stills and annual recent to the project in the still and annual recent in the still and annual and annual in the proper. An will be teacher in 191 proper into exercited use in pilot town. An will be teacher in 191 proper into exercited use in pilot town. An will be teacher in 191 proper into exercited use in pilot town. An will be teacher in 191 proper into exercited use in pilot town. An will be teacher in 191 proper into exercited use town. An will be teacher in 191 proper into exercited use town. An will be teacher in 191 proper into exercited use town. An will be teacher in 191 proper into exercited use town. An will be teacher in 191 proper into exercited use town. An will be teacher in 191 proper into exertical attribution of the for teacher in the teacher in 191 proper into exertical attribution of the for teacher in teacher in 191 proper into exertical attribution of the for teacher in the proper into or teacher in the proper into or teacher in the proper into or teacher or teacher in the proper into or teacher or teacher or teacher in the proper into or teacher or									iterature related to inservice training of teachers for IPI programs.	×	上	×	×	T
Conduct national field bearing and depiled field research on MPIT for bearing. And While field bearing and depiled field research on MPIT for bearing. And While field bearing and depiled field research on MPIT for bearing. Consisting of MPIT for bearing in 18 program for depiled to according to experience. And WHILE for bearing in 18 program in the depotent of a principle of MPIT for bearing in a feel field field field research agency and restriction, region. Consisting of MPIT for bearing in 18 program into admitted the Laternian of MPIT for bearing in 18 program. And WHILE THE PROGRAM IN 18 program into admitted in the Free research agency and restriction in the Analysis of MPIT for bearing in 18 program into a feel field research in 18 program into a feel field research into a feel field research in 18 program into a feel field research in 18 program into a feel field research in 18 program into a feel field research into a feel field									reject in "anterey, Calif., study teacners' uphavier and interview participating ify and define the critical stills and behaviers needed to teach in Inis tase of	×	1	×	×	Τ.
Connect animals of the tactura in 121 program into operational use in pilot scools. Put WIT for tactura in 121 program into operational use in pilot scools. Put WIT for tactura in 121 program into operational use interpolate the Laterator, region. Connect anith commercial published by the program into operational distribution of relit for tactura in 121 program into operational distribution of relit for tactura in 121 program into operational distribution of relit for tactura in 121 program into operational distribution of relit for tactura in 121 program into operational distribution of relit for tactura in 121 program into operational distribution of relit for tactura into operational use interior in the tactura into operational use interior in the program into operational distribution of relit into operational distribution of relit distribution of relit into operational use interior in the program into operational distribution distribution of relit into operational use interior of relit into of relit into operational use interior of relit into operational use interior of relit into of relit into operational distribution of relit into operational distribution of relit into operation of relit into one interior of relitional program interior of relitional distribution of relitional program.									neeved to function effectively in an IPI urugram.	×	‡	×	×	T -
Put Will for teachers in IPI program into specifical use in pilet screets. At Will for teachers in IPI program by independs the particular specifical and mutual to utstratury, region. Equation of PPI for teachers in IPI program by independs tracers apend and version based on the program by independent version based on version based on the program into operational distribution of PPI for teachers in IPI program into operational distribution of PPI for teachers in IPI program into operational distribution included to the program into operational program selected to dentity and define the cities is described by the program selected to dentity and define the differ the 1 program selected in the program selected into operational use in pilet seconds. At the program selected, the school of PPI for teachers entering the 3 reductional program selected by independent research of PPII for teachers of PPI for teachers only region of PPI for teachers only reg									field testing and applied field research on MPIT for tracners	×		×	+	T,
Conduct extension of PDI for backers in 181 program by independent treatest equivator, region. Conduct with commercial publishers for publication and national distribution of PDI for backers in 181 program. By independent treatest equivation takes on 181 program. By independent treatest equivation of PDI for backers in 181 program. For publication and national distribution of PDI for backers in 181 program. By the Markers of the publication and national distribution of PDI for backers in 181 program. By the Markers of the PDI for page and the PDI for page in 182 program. By the Markers of the PDI for page in 182 program in 182 program in 182 program. By the Markers of the PDI for page in 182 program in 182 program in 182 program in 182 program. By the Markers of the PDI for page in 182 program By the Markers of the PDI for page in 182 program in 182 for page in 182 program in 182 program in 182 program in 182 for page in 182 program in 182 for page in 182 program in 182 program in 182 program in 182 for page in 182 program in 182 for page in 182 program in 182 program in 182 program in 182 for page in 182 program in 182 program in 182 for page in 182 program in 182 program in 182 for page in 182 program in 182 for page in 182 program in 182 p									ers in 1P1 programs into operational use in pilot scnools.	+-	╅	N		<u>. T</u>
Control of the contro									in IPI programs into operational use turougnout the	 ×	+	×	†	T
Put Wilf for teachers in 19 programs and action of Maria and actional distribution of Maria teachers in the personal state of the teachers in 19 programs and action of Maria and Maria an									for teachers in 1PI program by independent research agency and revision Lassed evaluating agency.	×	┿	×	1	
Put MPIT for teachers in 101 programs into operational use nationally. Merion retearch literature related to intervice training of teachers in other new educational programs such as the Median Project on Unicentry teaching the 2014 High School Project Stanford Cal Project is 400. Observe the 3 programs selected to identify and define the critical stills and behaviors needed to teach in these programs. Conduct extensive field teachers to function effectively in the 3 programs selected. Conduct extensive field teachers to function offectively in the 3 programs selected. Conduct extensive field teachers and applied field research un WPIT for teachers entering the 3 educational programs selected into operational use in pilot schools. Put MPIT for teachers entering the 3 educational programs selected into operational use in pilot schools. Put MPIT for teachers entering the 3 educational programs selected into operational use throughout the Conduct entering the 3 educational programs selected into operational use throughout the Conduct entering the 3 educational distribution of MPIT for teachers entering the 3 educational distribution of MPIT for teachers entering.					•				ercial publishers for publication and national distribution of HPIT for teachers	×	\pm		+-	×
State the Medison Project on Uniconstruct training of teachers in other new educational progress such selected to interpretate the critical skills and behaviors needed to teach to below the progress and retained to the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach to be the critical skills and behaviors needed to teach the critical skills and behaviors needed to teach the critical skills and progress selected. Develop Medical skills and critical skills research on well for teachers and critical skills research and netional distribution of Medical skills and research and netional distribution of Medical skills research. Contract with commercial progress selected.									but HPIT for teachers in IPI programs into operational use nationally.	+	\pm	1	+	- ·
Develop HPIT designed to programs selected to identify and define the critical stills and behaviors needed to teach Develop HPIT designed to propries to function effectively in the 3 programs selected. Conduct extensive field testing and applied field research un MPIT for teachers entering the 3 educational programs selected into operational use in pilot scrucis. Put HPIT for teachers entering the 3 educational programs selected into operational use invusiout the Laboratory region. Evaluation of MPIT for teachers entering the 3 educational programs selected by independent research across and revision based on recommendations of each and national distribution of HPIT for teachers entering.									Neview retearth Illerature related to inservice training of teachers in other new educational programs such is the Medison Project on Discovery teaching, the WAN High School Project, Stanford Cal project, etc. and <u>telect 3 such programs</u> for development of MPT access.	×	\pm	×	×	۲,
ed to proper teachers to functive teld training and applied field reserving the 3 educational preserving the 3 education or recommendations of evaluating reis publication regerms selected.								<u> </u>	beerve the 3 programs selected to identify and define the critical skills and behaviors needed to teach in these programs.	×		×	+	1
feld testing and applied field reserving the 3 educational pre- rs entering the 3 educational pre- for teachers entering the 3 education in recommendations of evaluating rotal publishers for publication regimes selected.									hed to propere teachers to function effectively in the 3 programs	×		×	×	†
rs entering the 3 educational pro- rs entering the 3 educational pro- for teachers entering the 3 educa- in recommendations of evaluating rotal publishers for publication regrams selected.									field testing and applied field research on 4017 for teachers entering the 3	×	×	+	+	
rs entering the 3 educational profess teachers entering the 3 educan recommendations of evaluating risk publication rugrams selected.								_	entering the 3 educational programs selected into operational use in pilot seruci	×	×		+	- _T
for teachers entering the 3 educations of evaluating rotal publishers for publication rugrams selected.									entering the 3 educational programs selected into operational use throughout the	×	+-		+-	
reial publishers for publication rugrams selected.									Or teachers entering the 3 educational programs selected by independent research in recommendations of evaluating agency.	×	+	*	+	-
								52	rcial publishers for publication rugrams selected.	×		-	+-	
Put HP17 for teacners entering the 3 educational programs selected into operational use nationally.									teachers entering the 3 educational programs selected into operational use	+-	\pm	1	12	Τ.

ERIC Pull feet Provided by ERIC

COMPONENT D.

WSERVICE EDUCATION FOR TEACHERS PREPARING TO MAPLEMENT NEW CURRICULA

THE, Ther, Thent Analysis of Theisen Energin Process

use nationally (to be completed by January, 1978);

For Woof Laboratory for Educational Research and Development

Tasks to be Done in The First Year

The previous section provides a rationale and ten-year plan for the Teacher Education Program. This section presents, in some detail, the work to be carried out in this program to December 1, 1967.

The purpose of the first year's work in the Teacher Education Program is to develop an inservice training package designed to improve secondary school teacher behavior in two basic skills areas, use of questioning and reinforcement of pupil behavior in a discussion group setting. This package will be self-contained and adapted for use in any secondary school without the need for supervisory personnel, techicians or supplementary materials. The package will be developed and tested in cooperation with the Stanford R & D Center, cooperating Title III Centers, and selected schools in the region.

Briefly, this project will: (1) measure the use of questioning and verbal reinforcement by a sample of teachers, (2) develop a microteaching package designed to change these behaviors and (3) evaluate resulting changes in teacher questioning behavior, teacher reinforcement behavior, and pupil response.

In the microteaching procedure to be employed in this project, a typical inservice lesson will consist of the following: (1) an initial video tape will be made of the teacher's classroom behavior to establish baseline data; (2) the teacher will study the set of instructional materials on the questioning



and reinforcement skills; (3) the teacher will prepare and teach a short lesson applying those skills; (4) the teacher will view a video tape of a model teacher demonstrating the use of questioning and reinforcement skills; (5) the teacher will view her own video tape lesson and fill out a critique sheet; (6) the teacher will reteach the lesson. At the end of the entire package of two or more lessons, a final video tape of classroom behavior will be made to estimate changes in teacher and pupil behavior.

Instructional objectives for the microteaching package:

-Given a class of twenty-five to thirty students in a secondary school academic subject, the inservice trainee must employ a form of verbal reinforcement in at least eighty percent of the discussion situations in which such reinforcement is judged to be desirable by an independent team of observers.

-Given a class of twenty-five to thirty students in a secondary school academic subject, the inservice trainee should frame questions so as to elicit a desirable student response to at least eighty percent of the questions framed. A desirable pupil response will be defined as one that goes beyond the simple recall level and one that leads to clarification, and increased critical awareness or refocus of the topic under discussion. Pupil responses will be recorded by a trained observer using a rating form.

Research and Development Hypotheses (to be tested in cooperation with the Stanford R & D Center).

-There will be no significant interactions among age and sex of trainee,



age and sex of models, and behavioral changes of trainee.

- -There will be no significant differences between the amount of immediate or long term behavioral changes made by trainees given a two lesson package, and trainees given a four lesson package.
- -There will be no significant relationship between the amount of behavioral change of trainees on the skills taught in the inservice lesson and the following variables: flexibility-rigidity, anxiety, years of teaching experience, acceptance of self, future career plans, and general intellectual ability.
- -There will be no significant relationship between amount of behavioral change of trainees in their use of questioning and student achievement gains, student attitude toward the subject matter, and amount and level of student class participation.
- -There will be no significant relationship between amount of behavioral change of trainees in their use of reinforcement, and changes in student self-concept, student achievement, student attitudes toward the teacher, and distribution of participation among students.
- -There will be no significant difference in gains made by pupils at different ability levels.

The project will be carried out by completing the following tasks and subtasks:*

-Make a thorough review of the research literature related to the use of questioning and verbal reinforcements in the teaching situation.



^{*}See the attached chart for time and personnel involvement required for each task.

TYPES OF PERSONNEL

PUBLISHERS

STNA	TJUSI	cov								×			×	×	×	×	
T:	DARTI	сои															
	900	асн									×		×		×		
CENTER	ш 3	πт															
0880	HOR!	MTE									_						
780	TARO	רעם		×	×	×	×		×	×	×	×	×	×	×	×	×
PROGRAM PLAN FOR 1967 YEARTEACHER EDUCATION PROGRAM	S I	TASKS AND SUBTASKS	 Review of research literature on inservice training, microteaching and simulation techniques and teaching skill. 	a. Preliminary search of Psychological Abstracts and Education Index.	b. Locate important previous work.	c. Review all important previous work.	d. Prepare summaries of current state of knowledge in use of questioning, use of teacher reinforcement in the classroom, inservice training, discussion method of teaching, simulation techniques in teaching complex skills.	2. Develop a microteaching package for inservice training (MPIT) of secondary teachers on two basic teaching skills, i.e. probing and reinforcement based on Stanford research.	a. Evaluate Stanford microteaching materials on microteaching, questioning and reinforcement.	b. Plan and produce set of instructional materials on use of questioning and reinforcement in the classroom.	c. Obtain teacher evaluation of instructional materials.	d. Revise instructional materials.	e. Select teachers to prepare model tapes.	f. Establish procedures for preparing model tapes.	g. Prepare a set of eight model tapes, four on questioning and four on reinforcement.	h. Develop and videotape introduction to describe package and orient teachers.	i. Assemble preliminary inservice package from introduction, instructional package and model tapes.
		MAMULULAISIOIN		ļ		<u> </u>						├	├				┞╌┥
A		0			-	-		<u> </u>	 	 		╁	-	┢			
4	67	5	<u> </u>			╁				-	<u> </u>	╁╌	\vdash	-			
	TIME: 1967	7			_	-			 			1		╅			
A	Ŭ Z	=		ļ	-	-			 	-		╀┺╴	┞┻		 		
133	Ē	-	-		\vdash			 				f^-					
		=	 	 	\vdash	-		 	-	┼╬╌		1			1		
8		=	 					#		 	T		 		†		
~		_	<u></u>				<u> </u>	Щ							┺		<u> </u>



TYPES OF PERSONNEL

डी

)					I							
		ATJUE				×			×			×
		LDA91	COM									
•		STOC	3CH		×	×						
S	ENTER	EIG	JIII		×							
	880	GROT	NATZ									
	78	OTAR	רעפכ		×	×	X		×	×	×	×
	Component A: BASIC SKILLS INSERVICE EDUCATION (Cont'd)	TASKS AND SUBTASKS		3. Conduct initial field testing of basic skills package to determine most effective ways to implement degree of generalizability across subject areas, etc.	a. Tryout on ten teachers.	b. Teacher evaluation	c. Package revision based on evaluation and tryout.	4. Develop and distribute video tape describing the basic skills package for use by educational TV channels.	a. Prepare script.	b. Video tape trial program.	c. Broadcast trial program to a sample of teachers and obtain evaluation.	d. Revise trial and distribute to educational TV channels in the region.
	S		10									
	ठ्ठ		MOSALLIN									
	84	TIME: 1967	A	<u> </u>								
	Ä	<i>™</i>	7				\Box					
	5	Z	7									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Ş	F	3				$\vdash \dashv$					<u> </u>
	2											
	8		MIA		\vdash							

ERIC"
Full Yest Provided by ERIC

H	BLISHERS	ы	!	Τ	Τ_			Γ			
PERSONNEI	STNATJUENC	ρ				×		×			×
SS	TOARTHO	ρ							×	×	×
Ä	эноогг)S									
ç	TLE IL CENTER										
9	ANFORD R & D	S	<u> </u>								×
PES	YROTAROBA	<u>n </u>	×	×	×	×		×	×	×	
TYPES	Ponent B: INSERVICE EDUCATION FOR TEACHERS OF NONTYPICAL GROUPS TIME: 1967 TASKS AND SUBTASKS	1. Review the literature on teaching nontypical groups and on the specific skills needed by teachers of such groups.	a. Preliminary search of Psychological Abstracts and Education Index.	b. Locate important previous work.	c. Review all important previous work.	 d. Prepare summaries of current state of knowledge in use of questioning, use of teacher reinforcement in the classroom, inservice training, discussion method of teaching, simu- lation techniques in teaching complex skills. 	2. Study teachers of urban Negro culturally deprived secondary school students to identify and define critical skills and behaviors needed to teach this group.	a. Interview teachers in Oakland, Berkeley, and Richmond schools who are working with Negro culturally deprived secondary school students.	b. Interview trainees in U.C. intern program.	c: Observe classes in schools having large culturally deprived Negro student body.	d. Prepare handbook defining critical skills and behaviors and suggesting how skills may be applied in classroom.
	ERVIC OIN										
	SEA SEA										
	185 185 181 181	,									
	TIME: 1967										
	ME								\dashv		
	Com/				\dashv				\dashv	- 	
	~· <u>-</u>				1				1		

- -Make a comparative evaluation of video tape recording systems, establish criteria and select the systems that meet these criteria.
- -Obtain competitive bids on video tape systems, purchase systems for developing model tapes and field testing.
- -Starting with the preservice materials developed at Stanford R & D Center to teach questioning and reinforcement skills, further develop a set of instructional materials designed for inservice training application.
 - -A sample of teachers will be asked to make a qualitative evaluation of the instructional materials.
 - -Another sample will be given the materials and tested to determine their level of understanding and retention of the content.
 - -A typical set of instructional materials will include a video taped presentation making extensive use of film clips from the classroom to illustrate the skills being taught, and a handbook which will be prepared in a combination of conventional and programed text format.
- -A group of ten to fifteen model teachers will be employed as consultants to develop the model tapes to illustrate each of the skills. Model teachers should be selected so as to represent both sexes and at least two age groups. An effort will be made to use a group of model teachers who are heterogeneous in personality and teaching style so as to provide a wide variety of effective applications of the skills being taught.
- -A minimum set of eight model tapes will be developed. One tape on questioning and one tape on reinfercement will be developed by model teachers in each of the following categories: Male, age 25-35; Female, age 25-35; Male, age 45-55; Female, age 45-55. Additional model tapes will be developed if



needed. The steps in preparing each model tape would be as follows:

- -The Laboratory will contract with the model teachers to provide satisfactory tapes.
- -The model teacher will be given the instructional material and asked to study these materials carefully and pass a test on the materials. The model teacher will be asked to make a twenty minute audio tape in his classroom and submit it to the Laboratory to demonstrate his ability to apply the skills in the classroom.
- -The teacher will also be asked to try out the skill in his or her classroom during the week preceding the taping.
- -The teacher would then prepare a five to ten minute lesson from the regular curriculum in an appropriate subject area to demonstrate the skill being taught.
- -An appointment would be made for Saturday morning for the teacher to tape the lesson in his/her own classroom. The teacher would arrange for the services of five students for the taping session.
- -The model tape would be made, immediately checked by the teacher and Laboratory staff, discussed and retaped until a satisfactory model tape were obtained.



- An introduction would be developed and taped for use with the package.

 This introduction would describe the purposes of the package, assure participating teachers that the evaluations were aimed at improving and would also present the instructional package to the teacher. This tape would probably run from ten to thirty minutes and would include film clips of the microteaching process in action, give the teacher some background in microteaching, present the reasons that it is considered a desirable tool for inservice training, and present material on the skills to be learned.
- The preliminary package would be tried on a group of ten teachers who would be asked to evaluate all parts of the package and suggest ways in which the package could be improved.
- A taped program would be developed for showing on Educational TV to aid in disseminating information about the package.
- Observation forms would be developed to be used in evaluating teacher questioning and use of reinforcement before and after inservice training.
- Self evaluation forms would be developed so that the teacher could critically evaluate his/her video taped lessons when viewing the replay.
- The inservice package would then be revised and be made ready for extensive field trial.
- A sample of 160 teachers would be selected from cooperating school districts and would be asked to participate in the project.* (see Table on next page.)



^{*} This and subsequent tasks would be completed after December 1, 1967 but are included to help the reader fit the next year's work into context.

SUBJECTS AND TREATMENTS TO BE USED IN FIELD TESTING

	<u>s</u>	ubjects		<u>Models</u>	
N	Sex	Age	Experience	Sex Ag	e
10	M	22-30	First year	M 22-	30
10	M	22-30	First year	F 22-	30
10	M	22-30	First year	M 40-	55
10	M	22-30	First year	F 40-	55
10	F	22-30	First year	M 22-	30
10	F	22-30	First year	F 22-	30
10	F	22-30	First year	M 40-	55
10	F	22-30	First year	F 40-9	55
10	M	40-55	Over 5 years	M 22-3	30
10	M	40-55	Over 5 years	F 22-3	30
10	M	40-55	Over 5 years	M 40-5	55
10	M	40-55	Over 5 years	F 40-5	55
10	F	40-55	Over 5 years	M 22-3	30
10	F	40-55	Over 5 years	F 22-3	30
10	F	40-55	Over 5 years	M 40-5	5
10	F	40-55	Over 5 years	F 40-5	5



- Schools would be asked to provide released time for the participating teachers and each teacher would be paid an nonorarium of \$50.00 to complete an interview and battery of tests outside of regular school hours.
- The pretest would include the following baseline and descriptive measures:
 - A 15 minute video taped sample of trainee and student behavior in a class discussion situation.
 - The Rokeach Dogmatism Scale and/or Test of Behavioral Rigidity.
 - Interview focused on biographical information and teacher attitudes.
 - School and College Abilities Test (college level).
 - Manifest Anxiety Scale.
 - Student achievement measure.
 - Bills' Index of Adjustment and Values (self-concept).
 - Student attitude scale.
- From the eight or more model tapes available, different combinations would be employed to estimate the effect of age and sex differences between the model and trainee upon changes in the trainee's behavior (see Table).
- Half of each teacher group would be given a two hour package and half would be given a four hour package to estimate effects of package length on trainee behavior.
- A battery of post-tests would be administered to include:
 - A 15 minute video taped sample of trainee and student behavior in a class discussion situation.



- Student achievement measure.
- Bills' Index of Adjustment and Values.
- Student attitude scale.
- The teacher sample would be drawn from at least two subject matter fields in order to estimate the relative value of the package in different areas.

 A later project would be carried out to determine the degree to which a trainee can transfer from models who are teaching in a subject area different from the trainee's area.
- An independent research agency would be contracted to evaluate the package and recommend further revisions.
- Based upon the results of the applied reasearch-field testing phase, and independent evaluation, one or more operational packages would be assembled and made ready for extensive use in the schools in the Laboratory region. It is anticipated that cooperating Title III Centers would disseminate these packages.
- Commercial publishers would be contacted and arrangements made for production and national distribution of the operational package.

Staff Requirements

The staffing for this program will include the following:

- Program Co-Directors (two Senior Program Director II, each at 80% time):
- One director will be responsible primarily for overall supervision and for the evaluation and applied research phases of the program. He will also be responsible for coordinating the efforts of the Laboratory



- with the Stanford Research and Development Center and with other colleges and universities as they become involved.
- The other director will be concerned primarily with development and implementation of the inservice training packages. He will also coordinate activities with the cooperating Title III Centers and pilot schools that participate in the program.
- It is anticipated that the Co-Directors of the Teacher Education Program will provide the combination of skills and experience needed for satisfactory achievement of all of the program tasks. As a rule, major decisions regarding any aspect of the program will be made jointly by the Program Co-Directors and the Laboratory Director.

Project Director I (one at 80% time): This person will be an experienced research and development specialist in the microteaching technique and will provide major support during both development and implementation of the microteaching packages. He will also assist in planning and carrying out evaluation and applied research in order to determine the effectiveness of the packages and identify variables that should be manipulated in order to increase this effectiveness.

Senior Program Associate II (three at 80% time):

- One of the Senior Program Associates has extensive experience in inservice education and supervision in the public schools and will contribute primarily to development of the inservice training packages and their implementation. This person will also play a major role in developing sets of instructional materials which are part



of each of the inservice education packages.

- The second Senior Program Associate will work primarily in the applied research and evaluation area and will also be concerned with the identification and definition of critical skills required by teachers in our specific instructional situation.
- The third Senior Program Associate will work primarily on the pupil behavior and pupil-teacher interaction variables of the program.

 This person will provide feedback for both the research and development aspects of the Teacher Education Program.

Program/Project Associate II (one at 80% time): This person will work primarily in the evaluation of applied research aspects of the program and will carry out professional tasks assigned by the Program Co-Directors. Such activities as observing teacher behavior, developing observation and evaluation forms, training persons to classify teacher behavior recorded on pre and post videotapes, planning and directing the administration of the pre and post test batteries will be assigned to this person.

Secretary I - three would be assigned to the program (full time).

Clerk Typist I - one would be assigned to the program (full time).



REFERENCES

- Allen, D. W. and Ryan, K. A., <u>A Perspective on the Education of Teachers in California in 1980</u>, Stanford, California: Stanford University, report to the State Committee on Public Education, November, 1966.
- California Teachers Association, Research Bulletin No. 120, April, 1959.
- California Teachers Association, Research Bulletin No. 179, April, 1965.
- Landers, R. A., A Study of Administration and Organization Aspects of Inservice Education Programs in the Public Schools of Arkansas. Doctoral Dissertation, University of Arkansas, 1954.
- Mork, G. A., Effects of an Inservice Teacher Training Program on Pupil Outcomes in Fifth and Sixth Grade Science. Doctoral Dissertation, University of Minnesota, 1953.
- Orme, M. E. J., The Effects of Modeling and Feedback Variables on the Acquisition of a Complex Teaching Strategy. Stanford University: mimeographed draft, 1966.
- Wood, H., <u>In Service Education of Teachers An Evaluation</u>. Eugene, Oregon: University of Oregon, School of Education, 1950.



The Communication Program

Introduction

Schools are presently facing responsibilities which, if met, will require that school personnel effectively make complex and difficult decisions about changes in their professional activities. These pressures for change in organization and operation stem from (1) increases in number of students, (2) expanded goals and purposes of education and (3) clearer recognition of the importance of extended education for all citizens for the political, social and economic welfare of the nation. Possibilities for change have increased, too, as a direct result of increasing investments in educational research and development. At present a clearly recognized impediment to prompt and effective change is the fact that school personnel, by and large, are poorly informed about options that could be available to them as they make decisions about how schools are to be organized and operated.

The Far West Laboratory's Communication Program is concerned with increasing the ability of school personnel to make effective decisions that involve changes in their activities by (1) developing strong motivation among school personnel to be informed about new possibilities of meeting new responsibilities, (2) providing an efficient system through which school personnel can have ready access to relevant information and (3) developing organizational arrangements through which schools can utilize information effectively.

It is important to distinguish between providing information about options as decisions are made and influencing the decisions that are made. This is the difference between fact and value. It does not follow that to know about a new educational practice is to decide to adopt it. Rational processes of decision-



making may lead to rejection of a possible innovation. As a consequence, the measure of effective use of information is <u>not</u> the rate of adoption or change, but the degree to which decisions are made with due regard for the implications of all information that can be made available.

The Objectives of the Communication Program

The mission of the Communication Program is to conduct those research, developmental and operational tasks that will bring into existence effective use of information about options available to school personnel as they make decisions in the organization and operation of schools. Final accomplishment of this mission would bring about a state of affairs in which all known alternatives are recognized and evaluated upon the basis of all available evidence as each decision is made. This is a description of an ideal state, one not likely to be attained completely, but one which establishes the desired direction of improvement.

Specific Immediate Objectives -- There are three immediate objectives of the Communication Program:

1. Develop among school personnel a strong positive attitude in support of continuation and enlargement of investments in educational research and development. Specific goals to be achieved are those attitudes that could be measured with an attitude survey of school personnel which are expressed as a readiness on the part of the majority to allocate resources to educational research and development in an amount at least equal to that which has generally been found desirable by forward looking industry, i.e. from 5 to 10 per cent of the total national educational budget.



- 2. Develop among school personnel a knowledge of educational research and development which support realistic expectations from research and development. Specifically, we would seek to give school personnel the ability to estimate the advantages, disadvantages, benefits and costs of possible innovations in a manner consistent with such estimates if they were made by persons most knowledgeable and experienced in the area of innovation. School personnel should neither be overly optimistic or pessimistic about the possibilities inherent in an innovation, nor should they be overly concerned about the effects of a change upon their role within the school.
- 3. Develop a climate within school supportive of the full participation of school personnel in educational research and development. Specifically, educational research workers should be able to find ready acceptance to any reasonable request for participation of schools in the work necessary to develop and evaluate a new idea.

These three objectives represent the immediate goals of the program. Base line data will be collected by survey techniques before the initiation of each communication series. Comparisons will be made with post series surveys to measure change in attitude, knowledge and climate. We should be able to measure definite gains in their direction within one year and to have substantially achieved them in three years.

Intermediate Objectives -- Within five years we should be able to specify and have made significant progress toward the attainment of objectives yet to be specified, relative to an effective system for the development, storage, retrieval

and display of the information most needed by school personnel. By that time we can anticipate that such information will have increased vastly in volume and kind as a consequence of expansion of research and development activities.

Long Range Objectives -- Within the long run of approximately ten years our objectives will include establishing effective organizational arrangements within schools whereby the vastly larger amount of information available to school personnel is being used effectively.

Present State of Affairs

It is expected that the work now underway with the assistance of the Lockheed missiles and Space Company will provide within six months a well documented and detailed analysis of the present state of affairs in the area of the mission. Generally, the results of Phase I of the Lockheed Study support an early assessment of the present state of affairs as one needing vast improvement. School personnel are confused and dissatisfied with their present information or lack of it about educational research and development. Efforts known by them to be underway to improve the situation are not looked upon as very promising.

Tasks to be Accomplished (Ten Year Projection)

The tasks to be accomplished under the guidance of the proposed mission can be organized within its three major components: (A) development of attitudes and expectations, (B) creation of a system for production, storage retrieval and display of information and (C) establishment of organization arrangement within schools to utilize information effectively.

The chart on page 43 presents an analysis of the ten year Communication Program



ERIC Full flast Provided by ERIC

TIME, TASK, TALENT ANALYSIS OF COMMUNICATION PROGRAM

INC,		いない	i	177	111	•	WALL!		0/0	S OF COMMONICALION PROGRAM				1
*** 1.00 1.1.1.1		1111	। ज़	TIME			53	1111		TYPES OF TASKS PERSONNEL ("")	LABORATORY	SCHOOLS	CONTRACT	CONSULTANTE
			Н							A-1: Develop and distribute 10 ETV programs for viewing by classroom teachers in region.	*		•	
-				22	COMPONENT	8	WA			A-2: Develop and distribute a series of "Communications" products.	*			
		\vdash			Н					A-3: Determine impact of ETV programs & "Communications" products on attitudes of school personnel.			*	
1	<u> </u>	\vdash	\vdash	 						A-4: Revise plans, develop and distribute a second series of programs and products.	*		•	
╂	-	 	\vdash		 					ind products.	*			
-	H	i			11		11			A-6: Evaluate discrepancies between results achieved and desired attitudinal goals (continue to evole through A-4, A-5, A-6 until doals are reached.)	*		-	*
										a part of Labora	*	•	Н	
		-		-						B-1: Complete Phase II of Communication and Utilization study.			-	
+	\vdash	\vdash	\vdash	18	CC PONENT	18	NT 8			B-?: Plan Stage I of an information system.			*	*
			\vdash	H						8-3: Implement Stage I within a small number of pilot schools.	*	٠		
\vdash	╀		+	\dagger	!					B-4: Determine effectiveness of Stage I information system.	*		┢	
-	T	╂		 	+					B-5: Revise and extend Stage I system to cover all schools in region.	*	•		1
\vdash	T		\vdash	\vdash						B-6: Plan Stage II of an information system.	*		•	•
\vdash				 	T					B-7: Implement Stage II of system in a small number of pilot schools.	*	*	Н	
	\vdash	\vdash								8-8: Determine effect: veness of Stage II information system.	*		Н	
	\dagger	H	H							8-4: Rep.ace Stage I system with Stage II system in all schools in region.	*	*	H	
		-		-						C-1: Review state of art in "educational change" and select 3 promising approaches for tria.	*	П	\vdash	
			\dagger	ध	200	2	ENT C	S		C-7: Introduce each of the ? approaches experimentally within pilot schools.	*	*		4
\vdash			\vdash	H						C- :: Evaluate relative effectiveness of each approach and select one for intensive development.	*			
	T			\vdash				Γ			*	*		*
\vdash	†	 		•						C-5: Determine effectiveness of approach and revise to improve.	*			
\vdash	1	\vdash								C-6: Integrate Stage I of information system and revised approach to change in pilot schools.	*	•		
\vdash	T	 	T	I						C-7: Determine effectiveness of integrated system.	*			
+-	T		\vdash							C-8: Revise and extend integrated system to all schools in region.	*	*		
	T	\vdash	\vdash	t						C-9: Revise integrated system to accommodate Stage II of information system.	*	٠		
T				 						C-10: Evaluate total system and make necessary revisions.	*			•
\vdash	1		T		T					C-11: Provide procedures for monitoring, up-dating, and maintaining system.	*		*	
$\frac{1}{2}$	1	1	1	1	1	1								

in terms of time, tasks, and types of personnel (3-T chart). Examination of this chart will reveal the planned sequence of tasks in the three program components (A,B & C) through 1977 in terms of duration and type of involved personnel.

Tasks and Sub-Tasks to be Accomplished During the First Nine Months of the Communication Program: March 1, 1967 through November 30, 1967

The Communications Program, during its first nine months, will initiate work in each of the three major components of the program.

In Component A, Development of Attitudes and Expectations, we will carry out tasks A-1 to A-5 shown in the following chart:

In Component B, Development of an Information System, we will carry out task B-1 as shown in the chart following. The majority of this work will be accomplished under contract with Lockheed Missiles and Space Company. Sub-tasks of this component are shown in the charts as they were outlined by the Lockheed Missiles and Space Company in renegotiation of Phase II of that work.

In Component C, Changing Schools to Utilize R & D Information, we will carry out task C-1, a review of the state of art in educational change. Sub-tasks for this component are also identified in the chart. This work will be accomplished by permanent members of the Laboratory staff.

Staff Requirements

The staffing for this program should include:

- Two (2) Program Co-Directors (each at 80% time):
 - (A) One director will be concerned primarily with content



TYPES OF PERSONNEL

PROGRAM
COMMUNICATION
P 1967 YEAR
POGRAM PLAN FOF

A-1: Develop and distribute 10 ETV programs for viewing by classroom a. Prepare scripts. b. Produce programs. c. Alert audisncs. A-2: Develop and distribute a series of "Communications" products. A-2: Develop and distribute a series of "Communications" products. A-3: Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. A-3: Develop products for Phase I. A-3: Develop products for Phase I. C. Plan procedures for Processing requests. A-3: Develop procedures. A-3: Develop procedures. A-3: Develop pilot version of survey instruments. C. Field test pilot version of survey instruments.	1 0	TIME 1967	4	2	77 196, Compo	TOCKAM FLAN FOR 1967 YEARCOMMUNICATION PROGRAM TIME 1967 Component A: Development of Attitudes and Expectations	YAOTA	876	TOV	STNATJ
a. Prepare scripts. a. Produce programs. c. Alert audience. d. Arrange distribution. 3. Develop and distribution. c. Plan procedures for Phase I. b. Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. c. Plan procedures for processing requests. d. Establish procedures and facilities to process requests. c. Plan procedures for processing requests. d. Establish procedures. c. Plan procedures for programs & "Communications" products on attitudes of school personnel. d. Process requests. c. Field test pilot version of survey instruments. d. Revies instruments. c. Etablishe survey instruments. d. Revies instruments. e. Distribute survey instruments (pre-test). f. Analyze returns to establish base line data. g. Distribute survey instruments (follow-up).	A W J J A	S	9	Z		TASKS AND SUBTASKS	EABOR.	асноо	RTNOO	CONS
a. Produce programs. c. Alert audience. d. Arrange distribution. a. Develop and distribute a series of "Communications" products. A. Arrange distribute a series of "Communications" products. b. Develop and distribute a series of "Communications" products. c. Plan procedures for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. c. Process requests. d. Establish procedures and facilities to process requests. c. Process requests. d. Establish procedures. c. Field tast pliot version of survey instruments. d. Revise instruments. c. Field tast pliot version of survey instruments. d. Revise instruments e. Distribute survey instruments (pre-test). f. Analyze returns to establish base line data. S. Analyze returns to establish base line data. S. Analyze returns to establish base line data.						and distribute 10 ETV programs for viewing by a in region.			 	
b. Produce programs. c. Alert audience. d. Arrange distribution. i. Develop and distribution. a. Determine products to be developed. b. Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. x. C. Plan procedures and facilities to process requests. c. Plan procedures and facilities to process requests. d. Establish procedures and facilities to process requests. c. Plan procedures and facilities to process requests. c. Plan survey procedures. d. Establish procedures. c. Field test pilot version of survey instruments. c. Field test pilot version of survey instruments. d. Revise instruments. c. Field test pilot version of survey instruments. x. X X X X X X X X X X X X X X X X X X X					a.	Prepare	×		×	
d. Arrange distribution. i. Develop and distribution. a. Determine products to be developed. b. Develop products for Phase I. c. Plan procedures for Phase I. d. Establish procedures and facilities to process requests. e. Process requests. c. Process requests. d. Establish procedures and facilities to process requests. c. Process requests. e. Process requests. c. Process requests. d. Establish procedures of ETV programs & "Communications" products on attitudes of school personnal. a. Plan survey procedures. b. Develop pilot version of survey instruments. c. Field test pilot version of survey instruments. c. Field test pilot version faures inserved instruments. c. Pield test pilot version faures inserved instruments. f. Analyze returns to establish base line data. f. Analyze returns to establish base line data. S. Distribute survey instruments (follow-up).					b.	Produce programs			×	
d. Arrange distribution. i. Develop and distribute a series of "Communications" products. a. Determine products to be developed. b. Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. e. Process requests. i. Determine impact of ETV programs & "Communications" products on attitudes of school personnel. a. Plan survey procedures. b. Develop pilot version of survey instruments. c. Rield test pilot version of survey instruments. d. Revise instruments c. Pield test pilot version of survey instruments. x. f. Analyze returns to establish base line deta. g. Distribute survey instruments (follow-up). x. X x. X S. Distribute survey instruments g. Distributes g. Distribute					°0	Alert	×	×	×	
a. Determine products to be developed. b. Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. e. Process requests. 2. Plan survey procedures. 3. Plan survey procedures. 4. Field test pilot version of survey instruments. 5. Field test pilot version of survey instruments. 6. Field test pilot version of survey instruments. 7. Field test pilot version faurests. 8. Distribute survey instruments (pre-test). 6. Analyze returns to establish base line data. 8. Distribute survey instruments (follow-up).					d.	Arrange	×		×	
a. Determine products to be developed. b. Develop products for Phase I. c. Plan procedures for Processing requests. d. Establish procedures and facilities to process requests. e. Process requests. e. Process requests. a. Plan survey procedures. b. Develop pilot version of survey instruments. c. Field test pilot version of survey instruments. d. Revise instruments. f. Analyze returns to establish base line data. g. Distribute survey instruments (follow-up). x. X X. X X. X S. Distribute survey instruments (follow-up).						distribute a series of "Communications"				
b. Develop products for Phase I. c. Plan procedures for processing requests. d. Establish procedures and facilities to process requests. e. Process requests. Determine impact of ETV programs & "Communications" products on attitudes of school personnel. a. Plan survey procedures. b. Develop pilot version of survey instruments. c. Field test pilot version of survey instruments. c. Field test pilot version of survey instruments. f. Analyze returns to establish base line data. g. Distribute survey instruments (follow-up).					а.	Determine products to be d	×			
d. Establish procedures and facilities to process requests. X e. Process requests. X a. Process requests. X a. Plan survey procedures. X b. Develop pilot version of survey instruments. X c. Field test pilot version of survey instruments. X d. Revise instruments (pre-test). X f. Analyze returns to establish base line data. X g. Distribute survey instruments (follow-up). X					b.	Develop products for Phase	×			×
d. Establish procedures and facilities to process requests. e. Process requests. **Determine impact of ETV programs & "Communications" products on attitudes of school personnel. **A. Plan survey procedures. **Develop pilot version of survey instruments. **C. Field test pilot version of survey instruments. **A. C. Field test pilot version of survey instruments. **A. C. Field test pilot version of survey instruments. **A. C. Field test pilot version of survey instruments. **A. C. Field test pilot version of survey instruments. **A. C. Field test pilot version of survey instruments (pre-test). **E. Distribute survey instruments (follow-up). **A. C. Field test pilot version of survey instruments (follow-up).		. I			ິບ	Plan procedures for processing	×	T		
e. Process requests. **Determine impact of ETV programs & "Communications" products on attitudes of school personnel. **a. Plan survey procedures. **b. Develop pilot version of survey instruments. **c. Field test pilot version of survey instruments. **d. Revise instruments. **e. Distribute survey instruments (pre-test). **f. Analyze returns to establish base line data. **g. Distribute survey instruments (follow-up). **A. A. A					d.	Establish procedures and facilities to process	×			
a. Plan survey procedures. b. Develop pilot version of survey instruments. c. Field test pilot version of survey instruments. d. Revise instruments. c. Distribute survey instruments (pre-test). f. Analyze returns to establish base line data. g. Distribute survey instruments (follow-up).					.		×			
Plan survey procedures. Develop pilot version of survey instruments. Field test pilot version of survey instruments. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base line data. Distribute survey instruments (follow-up).						impact of ETV programs & "Communications" products of school personnel.				
Develop pilot version of survey instruments. Field test pilot version of survey instruments. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base line data. Distribute survey instruments (follow-up).		ľ			8.	Plan survey	×		×	
Field test pilot version of survey instruments. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base line data. Distribute survey instruments (follow-up).					b.	Develop pilot version of survey	×		-	
Revise instruments.XDistribute survey instruments (pre-test).XAnalyze returns to establish base line data.XDistribute survey instruments (follow-up).X	-				°°	Field test pilot version of survey	×		╂─	
Distribute survey instruments (pre-test). Analyze returns to establish base line data. Distribute survey instruments (follow-up).	-				d.	Revise	×	<u> </u>		
Analyze returns to establish base line data. Distribute survey instruments (follow-up).					•	Distribute survey instruments	×		-	
Distribute survey instruments (follow-up).		- 1			f.	Analyze returns to establish base line	×		×	
					80	Distribute survey instruments (follow-up)	×			

Expectations (Cont'd.)
and
of Attitudes
Development of
Component A.

TIME: 1967 Main Jan San No. Analyse and compare with base line data to assess impact. X X X X X X X X X	01	8	2	4	8	8	lopme	nt of 1	mponent A.: Development of Attitudes and Expectations (Cont'd.)				STI	
h. Analyze and compare with base line date to assess impact. 1. Ralate results of A-3 to Communication Program Component A 2. A-4: Revise Plans develop and distribute second series of programs 2. Plan series on basis of analysis of results of A-3 (ETV &	F	=	ü	96	2				TASKS AND SUBTASKS	OTA 90	\$700	TOART	NATJUE	
h. Analyze and compare with base line data to assess impact. i. Relate results of A-3 to Communication Program Component A A-4: Revise plans, develop and distribute second series of programs a. Plan series on basis of analysis of results of A-3 (ETV &			3	A	S	히	Z			4	ЗСН	COM	COM	,
1. Relate results of A-3 to Communication Program Component A Revelop. Revelop and distribute second series of programs a. Plan series on basis of analysis of results of A-3 (ETV & X X Y Y. b. Prepare scripts. c. Produce programs. d. Alert audience. e. Arrange distribution. f. Produce "Communication" products for Phase II. Determine impact of second series of programs and products. x								h,	Analyze and compare with base line data to assess impact	×		×		
Revise plans, develop and distribute second series of programs a. Plan series on basis of analysis of results of A-3 (ETV & X X X X X X X X X X X X X X X X X X								Į.	Relate results of A-3 to Communication Program Component Objectives.	×			×	
a. Plan series on basis of analysis of results of A-3 (ETV 6 b. Prepare scripts. c. Produce programs. d. Alert audience. e. Arrange distribution. f. Produce "Communication" products for Phase II. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments (pre-test). f. Analyze returns to establish base lines and compare with f. Analyze returns to establish base lines and compare with f. Analyze and compare with previous data to assess impact. g. Distribute survey instruments (follow-up). k. Analyze and compare with previous data to assess impact. x. Rejate, require of A-5-h to program objectives.									ise plans, develop and distribute second series of products.					ŧ
c. Produce programs. d. Alert audience. e. Arrange distribution. f. Produce "Communication" products for Phase II. f. Produce "Communication" products for Phase II. i. Determine impact of second series of programs and products. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments e. Distribute survey instruments (pre-test). f. Analyze returns to establish base lines and compare with f. Analyze and compare with previous data to assess impact. x. Analyze and compare with previous data to assess impact. x. Rejate, ragults of A-5-h to program objectives.								ά	Plan series on basis of analysis of results of A-3 (ETV Products.	×		×		
d. Alert audience. d. Alert audience. d. Alert audience. e. Arrange distribution. f. Produce "Communication" products for Phase II. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Fleld test pilot version. d. Revise instruments. f. Analyze returns to establish base lines and compare with f. Analyze returns to establish base lines and compare with f. Analyze and compare with previous data to assess impact. x. Analyze and compare with previous data to assess impact. y. Rajate; ragults of A-5-h to program objectives.								, q	. Prepare scripts	×		×		
e. Arrange distribution. f. Produce "Communication" products for Phase II. s. Determine impact of second series of programs and products. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments. e. Distribute survey instruments (pre-test). f. Analyze returns to establish base lines and compare with first series data. g. Distribute survey instruments (follow-up). h. Analyze and compare with previous data to assess impact. f. Relate, regults of A-5-h to program objectives. f. Relate, regults of A-5-h to program objectives.								ΰ	Produce			×		
f. Produce "Communication" products for Phase II. i. Determine impact of second series of programs and products. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments. e. Distribute survey instruments (pre-test). f. Analyze returns to establish base lines and compare with f. Analyze returns to establish base lines and compare with f. Analyze and compare with previous data to assess impact. x x x i. Relate, ragults of A-5-h to program objectives.								ď,	. Alert	×	×	×		
f. Produce "Communication" products for Phase II. a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments. e. Distribute survey instruments (pre-test). f. Analyze returns to establish base lines and compare with first series data. g. Distribute survey instruments (follow-up). h. Analyze and compare with previous data to assess impact. f. Rejate, regults of A-5-h to program objectives. x								Ü	Arrange	×		×		-
a. Plan survey procedures b. Develop pilot version of survey instruments. c. Field test pilot version. d. Revise instruments. e. Distribute survey instruments (pre-test). f. Analyze returns to establish base lines and compare with								£,	Produce "Communication" products for Phase	×			×	
Plan survey procedures Develop pilot version of survey instruments. Field test pilot version. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base lines and compare with first series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate, requits of A-5-h to program objectives.		-	,						impact of second series of programs and p					_
Field test pilot version. Field test pilot version. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base lines and compare with first series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate, regults of A-5-h to program objectives. Relate, regults of A-5-h to program objectives.								a,	Plan survey	×				
Revise instruments. Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base lines and compare with first series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate, regults of A-5-h to program objectives.								þ,	Develop pilot version of survey ins	×				_
Revise instruments. Distribute survey instruments (pre-test). Analyze returns to establish base lines and compare with first series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate: regults of A-5-h to program objectives.								ů	Field test	×				
Analyze returns to establish base lines and compare with first series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate: regults of A-5-h to program objectives.								d,	Revise	×				
Analyze returns to establish base lines and compare with tirst series data. Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate: regults of A-5-h to program objectives.								e.	Distribute survey instruments	×				
Distribute survey instruments (follow-up). Analyze and compare with previous data to assess impact. Relate regults of A-5-h to program objectives.								j.	Analyze returns to establish base lines and compare first series data.	×		×		
Analyze and compare with previous data to assess impact. X X Relater regults of A-5-h to program objectives.								80	Distribute survey instruments	×				
Relate regults of A-5-h to program objectives.								h	Analyze and compare with previous data to assess	×		×		
	-				\dashv	一		7.	Relate regults of A-5-h to program objectives	×			×	

Con

							TYPES	8		PERSO	ğ	¥
	8	18	1/4	6	8	2	mpanent B. Development of an Information System		RETIN			
	F	Z	TIME: 1967	8	~		TASKS AND SUBTASKS	OTAR			TOAR'	
A	Z	3	ㅋ	A	S	히				SCHC		
							B-1: Complete Phase II of Communication and Utilization Study.			<u> </u>	╄——	T
			\neg				a. Develop program for gathering data on information needs.	×		1	×	1
					_		b. Gather and analyze data on information needs.			1^	×	1
Î							c. Establish priority for information needs.	×	\dagger	╁	×	1
					<u> </u>		d. Conduct inventory of information systems analyses.		†-	十	×	1
						î	e. Develop initial plan of action for establishing FWL Information System.	×	×	×	×	1
							f. Integrate organizational change data (see C-1) with plan of action.	×	 	 	 	1
							8. Perform analysis of potential Phase I Information System Equipment Cost and Effectiveness.		+	×	+	+
	1	\dashv	\dashv				h. Survey and recommend for regional computer center utilization.			×	 _	1
-+	\dashv	_		_			i. Develop standardized reporting forms.	×	×	××	×	1~
	- †	—-;					j. Prepare preliminary design for Phase I Information Systems.		╁	×		1
	\dashv	+	_	_			k. Prepare systems software and hardware design specification.	×	╁	×	×	1~
一十	_	\dashv	\dashv				1. Develop pilot phase program.		<u> </u>	×		1
							m. Prepare design for FWL Status & Reporting Center.	×	╁	×		-
									ł	ł	1	1

ERIC Full Text Provided by ERIC

TIME: 1967		¥			_
	TASKS AND SUBTASKS	OTAR	30 E 2	STOC	NATAU
0		LABO	unt	SCH	COMP
	C-1: Review state of art in "educational change" and select 3 promising approaches for trial.				
	a. Review literature on strategies for introducing structural and personne.	×			
	b. Review literature on strategies for and time interval for transmission of ideas in organizations.	×			
	c. Contact research centers which are investigating educational change.	×			
	d. Select 3 strategies for creating within school organizations an arrangement to facilitate the effective use of information resulting from Educational Research and Development.	×			
	e. Plan pilot studies of the 3 approaches.	×			
	f. Select schools and supplementary centers for pilot studies.	×	×	×	
	g. Develop techniques and instruments for collecting base line data for pilot studies.	×			-

and impact of ETV programs and communication products and their total impact on specific audiences. Included here are determination of needs and interests, searching for and developing program resources, review of scripts, and arranging for production. His concern for impact and implication will extend to concern with the planning and effect of the information systems and educational change program components but will be most prominent in the selection and preparation of the attitudes component.

(B) The other director will be concerned primarily with the development of the information system component, including monitoring of contracts, arranging for consultant review of plans, and evaluation and implementation of successive phases of the communication system. He will also provide technical assistance in the design and evaluation of the attitude and educational change program components.

The Program Co-Directors should provide complementary skills suitable for providing overall direction for the Communications Program.

- Two (2) Program Associates (each at 80% time):
 - (A) The Program Associate I will, under general direction from the Program Co-Directors, begin the review of the state of the art in educational change and assume responsibility for selection and introduction of experimental information utilization arrangements within pilot schools. He will also assist in the execution of tasks in the attitude and information system components.

ERIC

(B) The Senior Program Associate II will be especially concerned with the production and distribution of ETV programs and may assist in the production and distribution of the "Communications" products.

Two (2) secretaries

One (1) clerk-typist



Redirection of Projects

Seven projects were initiated by the Laboratory during its first year of operation. Six were described in the developmental reports and the seventh was approved by the Board of Directors in December, 1966. The disposition of each of these projects is discussed below.

Project A: Methods for Evaluation of Effectiveness of Educational Methods for Overcoming Cultural Deficiencies.

The early activity in this project has been devoted primarily to planning. Several visits were made to the Evaluation and Research Unit of the Office of Compensatory Education of the California State Department of Education. These visits enabled the Laboratory to obtain a file which identifies every Title I project in California in terms of district, primary, secondary and other activities, objective, age level, evaluation strategy, research design, tests used, time interval, evidence of change, and presence of significant test. A small sample of PACE center, county and district research personnel (approximately fifty persons) have been contacted to identify evaluation and measurement problems. The major effort has been in support of the measurement project (see below) which is seen by those we have interviewed as a much needed contribution to those responsible for planning and evaluating Title I and other programs for the culturally different or deprived.

Field contacts have been made in the Washoe County School District, Nevada, and Berkeley Unified School District, California, to gather data on the educational problems of the culturally different. These field contacts have included class-room observation, discussions with teachers and minority group community leaders,



and meetings with selected administrative personnel. Statistical and qualitative data have been gathered as a result of the latter contacts.

Literature review and research relating to culturally different groups has been carried out continuously and will be an on-going process.

Activities designed to make available knowledge of value to teachers and administrators have been undertaken. These have resulted in lectures to teachers, administrators, and community groups in both California and Nevada and will eventually result in the preparation of printed materials and audio-visual units available for distribution within the framework of the communications program of the Laboratory.

Project A will disappear as a separate project. Certain of the activities, however, will be continued within the Communication Program.

Project B: Study of Research and Development Problem Formulation

This project was initiated by contractor January 15, 1967. The project is based on the experience of the Laboratory, as it gave consideration to the educational needs of the region, that one significant factor in the failure of schools to solve some of these most urgent problems lies in the difficulty experienced in defining the problem. Expressed needs and clearly articulated problems are often poles apart. Methods are needed for translating needs into problems amenable to attack by available techniques. The Laboratory has found in the contractor, the American Institute for Research, a group of personnel who are unusually suited for execution of this effort. Their general objective is to develop alternate systems for identifying educational needs and articu-



lating them into problems which can be attacked by research, development, or social action. Phase I, which will be completed February 28, 1967, is devoted to planning of Phase II, which is a nine month development and evaluation activity. In view of the focusing of Laboratory program in the areas of Teacher Education and Communication, Project B will be encouraged to place special emphasis of problem formulation in these two areas.

Since this project is not a part of either of the programs but will provide valuable input to them, it will be continued as an auxiliary project.

Project C: Study of Requirements for Education of Teachers and Other Professionals

The project is designed to search the psychology, social psychology, sociology, and education literature as preparation for developing some five or six models for teacher in-service education. A project staff composed of a psychologist, social psychologist, sociologist, media specialist, and teacher educator plus their research assistants (N=6) are conducting the literature search. They have held one major conference to elicit views, problem areas, and possible solutions to the in-service education area. Cooperative agreements with selected school districts, Title III, and other agency personnel on this topic have also been made. Conference proceedings of the major conferences are being printed.

It is anticipated that the paper developed for this project will be prepared for Laboratory use on or before June 30, 1967.

The project staff is now focusing their literature search in the areas appropriate for the Teacher Education and Communications eissions and will report on findings for these in their project report. The models of in-service education practices derived for the study will have direct relevance for the two missions above. The project will not continue beyond the present commitment, except that some of the activities will become integral parts of the two programs.

Project D: Communication and Utilization Study

In view of the fact that communication and dissemination is one of the responsibilities most clearly assigned to the Laboratory, early and continuing emphasis has been placed on the study of how the Laboratory could effectively execute this obligation. Besides in-house program planning (which led to the Communication mission alternative discussed in a previous section), a contract with Lockheed Missiles and Space Company was let. Phase I (September 30 to November 30, 1966) included: a literature search for data which describes the communication or information needs of the region, interviews with a selected sample of educational constituents on information and communication needs, a media analysis to determine the most effective use of communications, development of a survey plan and evaluation instrument, and development of a matrix of needs.

One result of Phase I was the identification of educational TV as an effective medium. Phase II, now in progress, is concerned with the development, broadcasting and determination of the impact of ten TV programs, each 30 minutes long, which will be designed to communicate the excitement of, change attitudes toward, and develop realistic expectations concerning educational research and development among teachers in the region.



Obviously, Project D has laid the foundation for the Laboratory's Communication mission. Future activities of Project D will be programmed in direct support of this mission.

Project E: Conference on Instructional Methods Research

One major conference has been held which involved those who have made serious attempts to solve problems of individualizing instruction, and those seeking to utilize new approaches in the schools. The report has been published and will provide input to the ETV portion of the Communication mission, as well as to the Teacher Education mission.

Project F: Conferences on Curriculum Development and Evaluation

A series of conferences have been undertaken in four curriculum areas:

1) mathematics, 2) science programs for elementary, 3) foreign language programs for elementary and junior high schools, 4) the linguistic approach to (English) language instruction.

In each case the purpose of the conference was to translate the needs for teacher preparation and evaluation into practical ideas for Laboratory programs. The Laboratory's sponsorship of these conferences has also provided opportunity for small groups of experts in the relevant areas to take a broad and yet intensive look at development and research. The Laboratory intends to publish and distribute the proceedings of these conferences. Project F will also provide input to the ETV portion of the communication mission and should have relevance to the curriculum skills packages to be developed in the teacher education mission.



Measurement Project

In addition to the six projects outlined in the Laboratory's Initial Plan, a seventh project has been undertaken, partially in support of Project A but also in response to requests on the part of PACE center (Title III) personnel. The measurement project will have as its major end product the development of a handbook especially designed for Title I and Title III evaluators which will provide a starting basis for survey and selection of appropriate measures or techniques for the evaluation of educational objectives in ten broad areas: basic skills, other academic knowledge and skills, self-understanding and worth, social understanding and citizenship, health, attitudes toward school and learning, creating and adaptation, and preparation for vocation and avocation in a world of change. References for experimental design, analysis, self-constructed tests, etc. will also be given. A by-product of this effort will be the development of a tests and measures library at the Laboratory. This project will provide one or more "communications" products and will eventually support evaluation in the teacher education mission, but it is primarily an "auxiliary" project undertaken to provide a vital service to Title I and Title III evaluation activities.



TYPES OF PERSONNEL

PROGRAM PLAN FOR 1967 YEAR--AUXILIARY PROJECTS

				-	3		UN	
	TIME	TIME: 1967	TASKS AND SUBTASKS	OTAR GROT) E E	LKYC.	אנזא	3461
MAM	N J J	JAISIOIN			um		COM	
ပ			A-1: Study of Methods for Evaluation of Programs for Overcoming Cultural Deficiencies.					
			A-2: Evaluation of Curriculum Materials for Educationally Disadvantaged.					
ပ			a. Planning - completed.	×				
ပ			b. Pre-testing - completed.	×				
			c. Classroom observation.	×		×		
			d. Post-testing.	×				
			e. Analysis and reporting.	×				
			B. Educational Research and Development Problem Formulation.					
၁			a. Planning (Phase I) - completed.			×		
			b. Survey of means for identifying educational needs.			×		
			c. Examine existing ways for converting expressed needs into problems.			×		
			d. Design alternate systems for articulating needs into tractable problems.			X		
			e. Evaluate alternate systems.			×		
			f. Prepare report.			×		
			C. Study of Requirements for Education of Teachers					
၁			a. Planning - completed.	×				
၁			b. Conferences.	×			×	
			c. Literature search.	×				
	-							1

C indicates completion prior to March 1967



TYPES OF PERSONNEL

TORY

SENTER

SENSE

SEN

AUXILIARY PROJECTS (Cont'd.)

M	3	TIME: 1967	ÿ.	6 <u>1</u>	19		Z	TIME: 1967	TAROBAL	STANFORE	DESUTIT	ЗСНООГ	CONTRAC	CONSULT	PUBLISHE
								d. Preparation of proposals for in-service training of tea	teachers. X						
								e. Preparation of report.	×		Ц				
								tudy (See Communication	Program				×		,
ပ	$\vdash \dashv$		$\vdash \downarrow$	$\vdash \dashv$	$\vdash \dashv$	H		E. Conference on Instructional Methods Research - completed.	×			×		×	Ī
			<u> </u>		\vdash			F. Conferences.							
ပ				\Box		$\vdash \vdash$		a. Planning - completed.	×						
ပ								b. Conduct of 4 conferences - completed.	×			×		×	
								c. Preparation and publication of reports.	×						
		\vdash						G. Measurement Handbook.							
ပ		\vdash						a. Planning - completed.	×						
ပ								b. Field survey of user need - completed.	×						
								c. Preparation of mock-up and one chapter of handbook.	×						
						{		d. Field check of mock-up.	×						
	- -			-				e. Production of subsequent chapters.	×					×	

C indicates completion prior to March 1967



III

l

ORGANIZATION



Balan Seco

OFFICE SVCS ASSISTANT **BOOKKEEPER** SECRETARY I 1 BUSINESS MANAGEMENT CONTLR-TREAS. REC SUPVR BGT and ACCTS SUPERVISOR FILE CLERK SECRETARY ı Far West Laboratory for Educational Research and Development PERS SECY TO AGENCY **EXECUTIVE SECY** PROJ. ASSOC. PROG. ASSOC. CO-DIRECTOR SECRETARY SECRETARY TEACHER EDUCATION PROGRAM LABORATORY DIRECTOR BOARD OF DIRECTORS DEPUTY DIRECTOR ROJ. DIRECTOR PROG. ASSOC. CO-DIRECTOR A.V. TECH SUPVR. CO-DIRECTOR RECEPTIONIST SECRETARY COMMUNICATIONS PROGRAM PROD. YPIST PROJ. ASSOC. **CUSTRESDOCS** CO-DIRECTOR CLERK-TY

SUMMARY

The purpose of this Supplementary Report to the U.S. Office of Education is to provide a brief record of Laboratory activity during the last few months and a description of future plans, together with staffing and budget estimates.

In the process of preparing the report, the staff gained increased confidence in the viability of the programs recommended by the Executive Panel. The programs have objectives which can be implemented through concrete, interrelated plans and strategies. The staff was able to develop work packages for the coming year as well as the long-range plans which were described in the proposed missions for the Laboratory.

It was also reassuring to observe that the decision-making process adopted by the board of Directors did function well. The Executive Panel, with its broad representation of regional resources, has demonstrated that it is a strong and responsible body.

