

cation Department has right now, on file, a proposal to develop video tape television presentations for the in-service education of all of the school system's biology teachers in the Biological Sciences Curriculum Study (BSCS) approaches to teaching biology, a proposal to use the same techniques to train 2,300 elementary teachers in the concepts of instructional approaches required by modern math at the elementary level, and a third proposal to develop a laboratory to teach American History by approaches, 90% of which would not require the student to be able to read fluently. Creative staff members have been discouraged from developing projects which require considerable funds for equipment, because such projects simply have not been launchable. If the availability of funds were known, a surge of very imaginative proposals would immediately come forth.

The cost of the video tapes for in-service training of BSCS teachers is known to be in the range of \$10,000 to \$12,000. Once developed, these tapes could be duplicated inexpensively and used nation-wide. The same potential is present for other research in instructional methodology and approaches which are proved to be effective in the reality situation of public school classrooms rather than in university laboratories or the editorial offices of commercial concerns. Therefore, any funds spent for this type of research and demonstration could well be the most productive and influential expenditure in this entire proposal. But it is difficult to estimate the exact amounts required.

Therefore, it is proposed that the amounts known to be needed for the BSCS proposal be used as a basis for estimation, and an initial five projects to equip one facility for the testing of modern instructional approaches necessitating considerable equipment be authorized. The total amount required would be:

Project title: To extend educational experiences of teachers

Purpose.—To provide teachers with the opportunity of gaining new and different experiences through an exchange teaching program connected in cooperation with neighboring school districts.

Procedure.—This project would entail eliciting the cooperation of the school districts in the tri-county area of Metropolitan Detroit: Macomb, Oakland, and Wayne. It would involve as many districts as would be willing to participate in an exchange teacher program. The length of the project would extend for one semester. At the conclusion, teachers would return to their original schools.

Due to the need to establish contacts and guidelines, the project would be in effect for the second semester only. Experiences gained through such an exchange would afford teachers the opportunity of seeing other approaches to education through working with youngsters of various socio-economic backgrounds in school districts of differing educational philosophies.

Project title: To provide advanced academic activities for experienced teachers

Purpose.—To encourage advanced academic study for teachers who have been away from the university for a minimum of five years. It is equally important for experienced teachers to return to the university as it is for beginning teachers to complete graduate study requirements. By freeing such teachers from the pressures of a full teaching program while bearing personal and family responsibilities, a higher level of excellence of academic activity may be insured with resultant improved quality of education.

Procedure.—Select nine interested teachers (one from each region) from the 178 deprived area schools to return to full-time graduate study on full salary for one school semester.

Project title: Classroom actions conducted by an individual teacher or team of teachers to improve the quality and effectiveness of teaching-learning patterns

Purpose.—More studies are needed which attack basic problems in teaching and learning. Classroom teachers very often possess insights and techniques which could improve the learning and instructional patterns. This part of Facet 3B would encourage and facilitate action studies initiated and conducted by individual teachers and teams of teachers at the local school level. Individual staff members or a cooperating team of staff members may submit proposals.

Procedure.—(1) These projects can be initiated by an individual teacher or preferably two or three teachers cooperating in one local school or in different schools. (2) There will be provision for consultative services from the areas of teacher concern and action (subject content, instructional methodology, and in the behavioral sciences). (3) Released time and/or Saturdays will be available for the individual teacher or team of teachers to work with consultants in