

Proposal to
National Science Foundation

A COOPERATIVE EDUCATIONAL PROGRAM IN SCIENCE
AND TECHNOLOGY BETWEEN THE COLLEGE OF ENGINEERING AT
THE UNIVERSITY OF MICHIGAN AND THE ASSOCIATED UNIVERSITIES
AND COLLEGES IN THE STATE OF MICHIGAN

Submitted by
The College of Engineering

by
The University of Michigan Research Institute
Ann Arbor, Michigan

November 1959

0187

UMR0829

Name and Address of Institution

The Regents of The University of Michigan
The University of Michigan
Administration Building
Ann Arbor, Michigan

Title of Proposed Program

A Cooperative Educational Program in Science and Technology Between
The College of Engineering at The University of Michigan and the
Associated Universities and Colleges in the State of Michigan

Desired Starting Date of the Program

February 1, 1960 - Alternate date, June 1, 1960

Time Period for Which Support Is Requested

Three Years

This application has been approved by:



G. V. Edmonson, Professor of Mechanical Engineering; Associate Dean,
College of Engineering



S. S. Attwood, Dean
College of Engineering

Official Authorized to Sign for University: _____

INTRODUCTION

Science and technology dominate our civilization. Outstanding as their contributions to the social and economic life of man have been, however, western civilization has a vital need to increase greatly the pace of engineering and scientific progress for survival. The number of trained minds needed in these areas of knowledge requires an inspired teaching effort, well integrated from introductory through advanced courses of study. The challenging task of educating qualified students can be accomplished successfully, provided there is active and continuing cooperation between those in the educational community primarily concerned with teaching on all levels, and also with those primarily concerned with research.

An increasing number of students preparing for careers in technological areas are receiving their science, mathematics, applied mechanics, and other basic instruction during two- to four-year enrollments in community colleges or smaller liberal arts colleges and universities. These periods are followed by enrollments in the larger universities for the completion of undergraduate work or work on the graduate level. The University of Michigan has a vital interest in aiding this important and growing part of the total educational scene in every possible way. Direct and significant gains in the progress of science and technology can be effected by continuing cooperative efforts by educators in community colleges, liberal arts colleges, and the smaller universities with their counterparts in the larger universities, as well as with research scientists in the larger universities and in industrial and government laboratories.

The purpose of the over-all program is to provide an opportunity for the teachers of science and engineering in the smaller colleges and universities in the State of Michigan to better understand the needs of the engineering profession. The program provides a means for a limited number of teachers to continue advanced studies while in residence at The University of Michigan and at the same time, along with their colleagues, provides the opportunity to become familiar with the curriculum requirements and research activities in which faculty and students in the College of Engineering at The University of Michigan engage.

IT IS THE SPECIFIC OBJECT OF THE ENTIRE EFFORT TO STIMULATE AND BETTER PREPARE QUALIFIED STUDENTS FOR A CAREER IN ENGINEERING, AND THE SCIENCES.

The program will provide all science teachers of the smaller colleges and universities the opportunity for intellectual enrichment, discussion about science and the engineering profession, and a knowledge

of new developments in the rapidly expanding technological fields. The teacher who participates in the program will have gained a new knowledge which will naturally become a part of his background in his educational effort; his student will be encouraged to an increased level of performance through the stimulation from a knowledgeable teacher. It is expected that a more efficient transition for the student from studies in the smaller colleges and universities to the professional school will result. The University of Michigan can aid these smaller college and university faculties toward a fuller understanding of the needs for science and mathematics.

A considerable effort has been put forth by the College of Engineering at The University of Michigan to gain a better understanding of the problems and needs of the several institutions who will participate in the program. Several discussions, starting with a preliminary discussion with community college teachers on March 20, 1959, have taken place. Scheduled discussions with the Michigan Association of Junior Colleges on May 9, and October 15, 1959 have been undertaken. Interim mailings that permitted faculty discussions at the several institutions were completed. Finally, a general expression of a desire to participate in the program was voiced by the Michigan College Association which includes all colleges and universities in the state at its business meeting the afternoon of November 5, 1959. Lists of the institutions who have received information concerning this proposal and who have indicated their desire to participate in the program are included in Appendix A. A letter following the October 15, 1959 meeting of the Junior (or Community) College is to be found in Appendix B.

Regular contacts with the Dean of the College of Literature, Science, and the Arts and appropriate chairmen of science departments have been maintained during the development of this proposal. The College of Engineering has received their approval of the effort and an expression of desire on their part to participate to fullest extent in this engineering program. The College of Engineering has had the continuous consultation of Doctor Jesse Bogue, past president of the American Association of Junior Colleges. It has had the advice and support of the Administrative Officers of the University.

The program is state-wide in character and has been developed through discussions with state-wide organizations to which all participating institutions belong. The distribution of funds allocated for the program will have a state-wide impact on the problems of engineering education.

DESCRIPTION OF PROGRAM

Regular contacts and a continuous flow of information between college universities, and the faculty at The University of Michigan must be established if the engineering professions and the physical sciences are to accomplish the tasks before them. The teachers in all phases of the educational program in the several locations, that are dictated by economics, must work as a team.

For many reasons, it seems unwise to arbitrarily eliminate from participation any of those institutions who are members of the state-wide organizations with whom the College of Engineering has worked. It is, however, quite possible that some of them due to character of the school, location, local interests, or orientation of student body may not wish to participate in an engineering program. The budget reflects the best judgment of the planning group in this matter.

There are other institutions in the State which are offering engineering programs leading to the Bachelor's degree and whose programs are accredited by the Engineering Council for Professional Development. Although the responsibility for the direction of this program cannot be divided if maximum benefits to the state and sponsoring agency is realized, the participation of these institutions has been invited and their favorable response has been immediate. The anticipated good results of the effort will be immediately available to them.

This program is twofold in character; however, it is planned as an integrated task. The College of Engineering is in a position to extend the opportunity for advanced graduate studies to teachers of the colleges and universities throughout the state. At the same time a liaison program is intended to establish a mechanism for the continuous flow of information that is becoming so necessary to the educational programs of the engineering profession.

The total program would be coordinated by a liaison officer attached to the Office of the Dean. Each associated college and university participating in the program would handle the coordination of the activity with the University liaison officer through the means best suited to the organization at each institution. In all cases, a firm liaison contact would be established.

The activity of the University liaison officer would include handling of details pursuant to admission, appointment, and transfer of

funds for teachers entering graduate school, arranging programs and seminars that would be developed to focus the attention of all participants on the requirements and activities of the engineering professions, providing guidance and counseling to teachers and students on the subject of career planning, and acting generally as a contact officer between science, mathematics, and the introductory programs in engineering that are being carried out in the University. The liaison activity in the associated colleges and universities will include coordination of college groups so that they are informed of planned sessions provided for within the framework of this proposal, distribution of publications that are available, consultation concerning time, content, and interests on topics of discussion that are provided for within the proposal and generally serve administrative officers in order that they are completely informed.

Specific activities included within this proposal are as follows:

- I Plan and conduct conferences and seminars for the purpose of informing associated college teachers of the use made of the sciences and mathematics in engineering and advanced research. It is anticipated that such an understanding would bring about the same close relationship that now exists between the College of Literature, Science, and the Arts, and the College of Engineering at the University. The College of Literature, Science, and the Arts teaches all the courses in nonengineering science and mathematics required in both the undergraduate and graduate programs of the College of Engineering.
- II Arrange for admission of associated college and university teachers to the Horace H. Rackham School of Graduate Studies under the regular requirements in order that they may pursue graduate studies for one academic year (2 semesters)-- in the sciences, or mathematics, or engineering area of their interest. It is planned that the teacher admitted to graduate school shall remain on the payroll at full salary of their respective institutions. At the University, the teacher would be appointed as a Lecturer and attached to one of the professional divisions teaching staff at nominal compensation. It is expected that his participation with an engineering teaching and research unit will provide him an intimate knowledge of the engineering profession.

The cost to replace the teaching capacity of the teacher in residence at The University of Michigan, the actual displacement costs of the teacher in residence at the University,

and the nominal compensation involved in his appointment to the College of Engineering professional staff shall be borne by the National Science Foundation grant.

Selection of the teacher to be granted the leave of absence, and the selection of a replacement teacher shall be a function of the administrators of the separate participating colleges and universities. The University of Michigan will be ready to assist where required. The liaison officer will be prepared to provide consultation when such help is sought. The College of Literature, Science, and the Arts at the University of Michigan is prepared to cooperate and assist the schools, within their capabilities, to obtain qualified replacement teachers.

- III Hold periodic conferences at The University of Michigan, concentrating on specific late developments in given technological areas. Participants will be faculty members of the associated colleges and of The University of Michigan.
- IV Hold conferences between associated college teachers of science, mathematics, and applied mechanics, and University faculty having a primary interest in these subjects. Although the Liberal Arts College at The University of Michigan has not been given specific responsibilities in this program, it is ready to cooperate in the separate seminars where subject matter in its area is the topic of discussion.
- V Arrange conferences between selected groups of college students, their teachers, College of Engineering representatives, and representatives of Michigan industry. These will take place either on the premises of the college or those of the industry. The College of Engineering is fortunate to have the help of a very active Industry Committee, organized in 1952 as a working group, independent of the College except through good will, who are in a position to positively assist in this phase of the program.
- VI Schedule University faculty and industry affiliated lecturers to visit associated colleges at times when the topic of the lecture would fit in with the teaching program. For example, one lecture might deal with recent developments in the programming of computers for solving engineering problems. Another lecture might deal with the very important roles which

physics, chemistry, and mathematics are playing in the development of the so-called "solid-state materials" used in the production of transistors, thermoelectric generators, voltage-tunable capacitors, and similar electronic devices. Outstanding faculty men would have to be selected for these lectures, since the potential for guidance and inspiration cannot be overlooked in such situations.

- VII Distribute research reports, reprints of technical papers, and other written material appropriate for use by associated college science and mathematics teachers in their teaching and counseling activities.
- VIII Make available on a loan basis for specific use by associated colleges certain items of equipment and instrumentation to provide more effective laboratory demonstrations.
- IX Encourage the development and construction of laboratory and teaching aids by teachers and students at a minimum cost. In some cases, a written description with drawings would be sufficient. In other cases, prototype models would be constructed for delivery to the associated college classes, along with instructions for the construction of additional units by students.
- X Stimulate students in their career planning by making available to them pamphlets, films, etc., from industrial libraries, as well as industrial displays and other similar material. Through liaison representation and communication, the best available materials could be selected; other materials would be produced. One pamphlet, for example, would include statistical analyses and actual case histories of associated college graduates who have completed university degree work, and are now successful in professional careers in engineering and science.
- XI It is proposed that provision be made whereby college teachers and selected students could, during the summer vacation period, participate in scientific research programs under arrangements agreed to by the department of the University. Such arrangements would be aimed at encouraging the faculties of the several colleges to initiate proposals for similar future research programs.

The above items are suggested means for accomplishing the specific objective of the proposal. The relative amount of activity in any one category must be regulated by intelligent planning as the program progresses when the real needs are better understood. The program must have built-in flexibility in order to take maximum advantage of the knowledge that is gained.

Specific lectures, conferences, symposia, and short courses are all planned. However, the basic philosophy of this proposed program is to provide a continuing framework within which communications can be established and developed between the associated colleges, small universities, and The University of Michigan, with one central purpose--that each year more well-prepared graduates of junior colleges and transfer students from the liberal arts colleges will enter concentrated programs in engineering and science.

A necessary and valuable part of an operation such as this consists of evaluation and progress reports. It is proposed that semi-annual progress reports be prepared and distributed to the principal parties concerned. It is further suggested that copies of all technical writings developed for this program such as lecture notes, and designs of demonstration equipment should be transmitted to the sponsoring agency and for the use of the other major institutions of higher learning in the state. It is also expected that this program will give rise to reports and papers suitable for publication in the various journals dealing with science and engineering education.

PERSONNEL

It is proposed that Glenn V. Edmonson, Professor of Mechanical Engineering and Associate Dean of the College of Engineering be project director of this cooperative program. His extensive experience in industry as a fluids engineer, his experience as a teacher of both undergraduate and graduate engineering students, and the performance of his duties as Associate Dean make him eminently qualified to provide overall direction to the program.

The prime responsibility of the College of Engineering for liaison with the associated colleges and for cooperative programs between the College and other non-University entities, such as industry, resides in the Office of the Dean. The Dean must always be acutely aware of the needs and desires of these entities and their relationship to the educational programs of the College. It is believed that the proposed centralization of this program in the Dean's Office takes full advantage of the awareness of, and response of that office to, the growing problems arising concurrently with the expanding college population.

Working with and through the Dean's Office will be a senior member of the engineering faculty. He will devote full time to the program and will be responsible for implementing the plans and policies of the project director and the Dean's Office as they are formulated in conjunction with responsible members of the associated college faculties. He must work from a background of knowledge of, and personal interest in, the integration of freshmen and sophomore curricula with upperclass and graduate curricula in engineering. He must also be able to communicate his knowledge and interest to participants in the program and, above all, he must be a good coordinator. All these duties will be performed by a person of proven teaching and administrative capabilities. Although this senior faculty member has not yet been selected, the selection processes have been initiated and will be completed within the next few months.

The third member of the College of Engineering who will be responsible for a significant aspect of the proposed program is Raymond E. Carroll, Assistant to the Dean, Director of the Engineering Summer Conference Office, and Director of the Industry Program of the College of Engineering. Mr. Carroll will devote one-quarter time to matters pertaining to the conferences, lectures, symposia, seminars, publications, and coordination with industry. His educational background and College of Engineering experience make him uniquely qualified to perform these functions. The planning and implementation of the program of intensive

summer courses in many phases of engineering are his direct responsibility. The long-established liaison and cooperative programs of the Industry Program provide Mr. Carroll with significant experience pertinent to the proposed program.

Biographical data for Professor Edmonson and Mr. Carroll are a part of this application.

EDMONSON, GLENN V.

Professor of Mechanical Engineering
Associate Dean, College of Engineering

Education: University of Michigan: B.S.E. (M.E.), 1932; M.S.E., 1949.
(Registered Professional Engineer)

Employment: Academic

University of Michigan: Associate Professor, 1947-54; Professor, 1954- ;
Chairman, Fluids Engineering Laboratory Planning Group, 1954- ; Execu-
tive Committee, College of Engineering, 1955- ; Member, Engineering
Research Council, 1955- ; Associate Dean, College of Engineering, 1958- .

Other Professional

Kelvinator Corp., 1932-37; Staff Engineer, Hydraulic Coupling Division
of American Blower Corp., 1937-47.

Experience: Inspection and quality control; production-process development;
in charge of field development of kinetic-power transmission apparatus;
hydraulic machinery; turbo-machinery, advanced mechanical-engineering
problems; supervisor of research, high-pressure pumping units for
servopower; refrigeration compressors; hydrokinetic-power transmission;
universal-joint project; consultant on power transmission and centri-
fugal pump; design of high-speed pumping unit; consultant on turbo-
compound engine development.

Publications: Books, Bulletins, etc.--Hydraulic Machinery Notes (litho),
1950. Articles--5 on hydrokinetic-power transmission and applied
hydraulics.

Professional and Honorary Societies: Am. Soc. for Engineering Education;
Am. Soc. of Mechanical Engineers; Engineering Soc. of Detroit; Mich.
Soc. of Professional Engineers; University of Michigan Science-Research
Club; Pi Tau Sigma; Tau Beta Pi.

CARROLL, RAYMOND E.

Director, Industry Program of the
College of Engineering

Education: University of Michigan: B.A., 1937.

Positions Held: Professional

Amasa High School: Teacher of Speech and English, 1937-38. Dollar Bay High School: Teacher of Science, 1938-41. Physicist Research Co. (later called Micrometrical Development Corp.): Superintendent of Engineering and Production, 1941-54. University of Michigan: Director and Secretary of the Board of the Industry Program of the College of Engineering, 1952-54; Administrative Assistant, 1954-56; Assistant Director, 1956-58; Director, 1958- .

Publications: Articles--2 on the measurement of superimposed surface irregularities, and creative engineering.

Professional and Honorary Societies: Am. Soc. for Engineering Education; Am. Soc. of Mechanical Engineers; Ann Arbor Engineer's Club; Soc. for General Systems Research.

BUDGET STATEMENT

Following is a yearly budget for an initial three year program. The program and budget have been formulated with the specific intention of establishing an integrated effort. It is the desire of the College of Engineering to begin the necessary organizational work in preparation for a full-scale program to commence in September 1960. The preparatory work should start February 1, 1960. Therefore, the budget for yearly full scale program is preceded by a 7-month planning period.

Planning Period Budget

Salaries and Wages (Including Fringe Benefits)

Senior Engineering Faculty	7840
Secretarial Assistance	<u>2613</u>
Total Salaries and Wages	10,453

Purchases

Materials and Printing Costs	1500
Travel	<u>400</u>
Total Purchases	1,900

Total Direct Costs	<u>12,353</u>
Indirect Costs (15% Total Direct Costs)	1,853
Total Estimated Costs (7 months)	<u>14,206</u>

Annual Program Budget

(A) Graduate School - Teacher Program

Salaries for Replacement Personnel 45 @ \$6500	292,500
Displacement Costs and Travel for Graduate School Enrollees 45 @ \$500	22,500
Tuition to Horace H. Rackham Graduate School for Enrollees 45 @ \$250	11,250
Appointment to Lecturer - College of Engineering for Graduate Enrollees 45 @ \$200	<u>9,000</u>
Total	335,250

(B) Program Direction Cost

Salaries and Wages (including fringe benefits)	
Project Director	--
Senior Engineering Faculty Person (full time)	\$13,440
Assistant to Dean of Engineering (1/4 time)	3,360
Non-University of Michigan Faculty (45 faculty members, approx. 1/10 time each)	45,000
Secretarial Assistance (full time)	<u>4,480</u>
 Total Salaries and Wages	 \$ 66,280
 Purchases	
Travel and Subsistence	
University of Michigan Personnel (8740 miles, 45 days, car at \$7/day, \$.07/mile)	\$ 927
(subsistence, 45 days at \$17/day)	765
Community College Personnel (90 trips, 172 miles each, \$.07/mile)	1,084
Expendable Materials and Supplies	994
Communications	450
Services, (printing, drafting, reproducing, photography, etc.)	5,000
Part IX - Materials and construction of items totalling \$300-\$400/college/year (45 x \$350)	15,750
Part X - Procurement, preparation, printing, distribution	4,000
Part XI - 8 persons for 3 summer months (trial program)	<u>20,000</u>
 Total Purchases	 <u>48,970</u>
 Total Estimated Direct Cost	 115,250
 Indirect Cost (15% of Total Estimated Direct Cost)	 <u>17,287</u>
 Total Estimated Cost B (one year)	 \$132,537

(C) Other Program Costs - Meetings, Conferences, Seminars

I and III

8 meetings (45 persons attending)

Subsistence - 2 days each at \$17/day/person	\$12,240	
Travel - 172 miles/person/meeting at \$.07/mile	4,334	
Preparation and delivery of 75 lectures at \$50/lecture	3,750	
Administrative expense	<u>2,037</u>	
		\$ 22,361

IV

Travel - 40 trips, 172 miles/trip at \$.07/mile	480	
Subsistence - \$5/trip for 40 trips	200	
Administrative expense	<u>68</u>	
		748

V

Travel - 20 trips, 10 persons/trip, 172 miles/ trip (2 cars/trip) at \$.07/mile	480	
Subsistence - \$5/trip/person	1,000	
Administrative expense	<u>148</u>	
		1,628

VI

Lectures - 40 lectures at \$125/lecture (in- cluding preparation, travel, and subsistence)	5,550	
Administrative expense	<u>555</u>	
		<u>6,105</u>

VII Covered in B

VIII No cost

IX Covered in B

X Covered in B

XI Covered in B

Total Estimated Cost C (one year) \$ 30,842

TOTAL ESTIMATED COST (one year) 512,835

REPRESENTATIONS

The foregoing proposal has not been submitted to other possible sponsors in whole or in part, including other Federal agencies. There are no present sponsors of any portion of the program outlined in the proposal.

The U.S. Air Force resident auditor is assigned to audit The University of Michigan contracts with the Department of Defense and other Government agencies when requested by the agency or by any contractor who has subcontracted work to Michigan under a Department of Defense prime contract.

Salaries and wages will be charged at regularly established rates and will include allowances for vacation, holidays, or sick leave in accordance with the University's regular policy. Salaries of employees chargeable to the contract at less than full time will be charged on an allocation basis in accordance with our regular accounting procedures.

The University warrants that no person or selling agency has been employed or retained to solicit or secure this grant upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, and agrees to furnish information thereto as requested by the contracting officer.

APPENDIX A

MICHIGAN JUNIOR COLLEGES

Alpena Community College Alpena, Michigan Stanley E. Van Lare, Director	Jackson Junior College Jackson, Michigan William M. Atkinson, President
Battle Creek Community College Battle Creek, Michigan Robert O. Hatton, Director	Lansing Community College Lansing, Michigan Philip J. Gannon, Dean
Bay City Junior College Bay City, Michigan Eric J. Bradner, Dean	Muskegon Community College Muskegon, Michigan William G. Dwyer, Director
Community College & Technical Institute Benton Harbor, Michigan C. G. Beckwith, President	Northwestern Michigan College Traverse City, Michigan Preston N. Tanis, Director
Emmet Community College Petoskey, Michigan A. Shankland, Dean	Port Huron Junior College Port Huron, Michigan James C. Browning, President
Flint Junior College Flint, Michigan Clyde E. Blocker, Dean	South Macomb Community College Van Dyke, Michigan Walter E. Bradley, Dean
Gogebic Community College Ironwood, Michigan Jacob A. Solin, Director	Spring Arbor Junior College Spring Arbor, Michigan Roderick C. Smith, President
Grand Rapids Junior College Grand Rapids, Michigan John Visser, Dean	Suomi Junior College Hancock, Michigan David J. Hulkola, President
Henry Ford Community College Dearborn, Michigan Fred K. Eshelman, Dean	Tri-County College Saginaw, Michigan Samuel Marble, President
Highland Park Junior College Highland Park, Michigan Grant O. Withey, Dean	

October 27, 1959

LIST OF COLLEGES AND UNIVERSITIES RECEIVING TEACHER-PROGRAM
LETTER AND NSF PROPOSAL--A COOPERATIVE EDUCATIONAL PRO-
GRAM IN SCIENCE AND TECHNOLOGY BETWEEN THE UNIVERSITY
OF MICHIGAN AND THE STATE'S COMMUNITY COLLEGES

President Roy L. Aldrich
Detroit Bible Institute
17370 Meyers Road
Detroit 35, Michigan

Sister Mary Assumpta
President
Madonna College
36800 Schoolcraft
Livonia, Michigan

President Dewey F. Barich
Detroit Institute of Technology
131 E. Adams
Detroit 26, Michigan

Dr. Lynn Bartlett
Superintendent of Public Instruction
Lansing, Michigan

Right Reverend Arthur F. Bukowski
President
Aquinas College
Grand Rapids, Michigan

President Owen J. Cleary
Cleary College
Michigan Avenue
Ypsilanti, Michigan

Mr. Harry L. Crawford,
Resident Director
Sault Ste. Marie Branch
Michigan College of Mining & Technology
Sault Ste. Marie, Michigan

President John J. Danhof
Detroit College of Law
130 East Elizabeth Street
Detroit 1, Michigan

President John H. Dawson
Adrian College
Adrian, Michigan

President Eugene B. Elliott
Eastern Michigan University
Ypsilanti, Michigan

President Judson Foust
Central Michigan University
Mount Pleasant, Michigan

President John Hannah
Michigan State University
East Lansing, Michigan

President Edgar L. Harden
Northern Michigan College
Marquette, Michigan

President Weimer K. Hicks
Kalamazoo College
Kalamazoo, Michigan

President Clarence B. Hilberry
Wayne State University
Detroit, Michigan

President David T. Holkola
Suomi College
Hancock, Michigan

Sister Mary Honora, President
Marygrove College
Detroit 21, Michigan

President Otho Jennings
Owosso College
Owosso, Michigan

Sister Marie Kathleen, President
Nazareth College
Nazareth, Michigan

Mrs. Pauline Wilson Knapp, Director
The Merrill-Palmer School
71 East Ferry Avenue
Detroit 2, Michigan

President E. George Lawrence
Lawrence Institute of Technology
21000 W. Ten Mile Road
Detroit 41, Michigan

President Irwin J. Lubbers
Hope College
Holland, Michigan

Sister M. Lucille, President
Mercy College
8200 W. Outer Drive
Detroit 19, Michigan

Sister Benedicta Marie, President
Siena Heights College
Adrian, Michigan

Monsignor Albert A. Matyn, President
Sacred Heart College
2701 Chicago Boulevard
Detroit 6, Michigan

President Florence Merrill
Detroit Conservatory of Music
5035 Woodward
Detroit 2, Michigan

President J. Donald Phillips
Hillsdale College
Hillsdale, Michigan

President Philibert Ramstetter
Duns Scotus College
Nine Mile at Evergreen
Detroit 19, Michigan

President Gorton Riethmiller
Olivet College
Olivet, Michigan

President Floyd O. Rittenhouse
Emmanuel Missionary College
Berrien Springs, Michigan

Mr. Zoltan Sepeshy, Director
Cranbrook Academy of Art
440 Lone Pine Road
Bloomfield Hills, Michigan

President Paul V. Sangren
Western Michigan University
Kalamazoo, Michigan

President Roderick J. Smith
Spring Arbor Junior College
Spring Arbor, Michigan

President Victor F. Spathelf
Ferris Institute
Big Rapids, Michigan

President William Spoelhof
Calvin College
Grand Rapids, Michigan

President Celestin J. Steiner, S.J.
University of Detroit
McNichols Road at Livernois
Detroit 21, Michigan

President Robert D. Swanson
Alma College
Alma, Michigan

Mr. Preston N. Tanis, Director
Northwestern Michigan College
Traverse City, Michigan

President J. R. Van Pelt
Michigan College of Mining & Tech.
Houghton, Michigan

President William W. Whitehouse
Albion College
Albion, Michigan

October 27, 1959

APPENDIX B
(True Copy)

MICHIGAN ASSOCIATION OF JUNIOR COLLEGES

Highland Park Junior College
27 Oct. 1959

Dr. Glenn V. Edmonson, Associate Dean
College of Engineering
University of Michigan
Ann Arbor, Michigan

Dear Dr. Edmonson:

The Legislative Assembly of the Michigan Association of Junior Colleges studied the project, "A Cooperative Educational Program in Science and Technology Between the University of Michigan and the State's Community Colleges," at its Fall meeting at Michigan State University on 15 October 1959. That body which is composed of faculty representatives and deans of all the community colleges in Michigan unanimously endorsed the project and indicated that the community colleges would participate in it. Additionally, the action necessary to initiate and carry the project forward was supported unanimously.

It was anticipated that there would be some problems of adjustment and arrangement which would have to be worked out cooperatively. The general attitude towards the project, however, was one of full approval.

Sincerely,

Signed David A. Hilton
David A. Hilton, President
Michigan Association of
Junior Colleges

DAH:pk

cc: Mr. Ed. Bush, Secy, MAJC
Port Huron Junior College

UNIVERSITY OF MICHIGAN



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