

MEMORANDUM

TO: George T. Matthews
Chairperson, Senate Steering Committee

FROM: Sheldon Appleton *SA*
Chairperson, University Research Committee

Lewis N. Pino *LP*
Director, Research and Instructional Services

SUBJECT: Annual Report of University Research Committee, 1976-1977

Attached please find a summary of activity as well as detailed listing of grants made during 1976-1977 from the University Research Fund and the Undergraduate Research Fund.

In addition to the regular grant competitions, the Committee this time offered support to individual departments and department-like units for the purchase of research materials and equipment. These grants of up to \$2000 each, with a 20% matching requirement, are intended to improve faculty access to tools needed for high quality research and scholarly activity. It is our view that this competition was particularly successful, even though some departments failed to appreciate the breadth of the term "research materials and equipment." The Committee will consider, during the coming year, the possibility of placing this competition on a regular basis.

In February of this year, the Office of Research Services, with the support of the Provost and editorial assistance from the Committee, produced a volume entitled 1975-1976 Faculty and Staff Contributions to Arts, Letters, and Sciences. This compilation of published articles and similar contributions to research and scholarship is intended to be the first in a series of annual reports of this sort. Some 1500 copies were distributed, both on and off campus. Several departments included the publication in packets for prospective faculty and students. All in all, the response has been favorable, and we plan to continue this effort.

The Committee's call for proposals was rather carefully and extensively re-worked last fall, with the principal changes coming in broadening of the scope of the research fellowship program.

We are deeply grateful to the Oakland University Alumni Association for its continuing support of the undergraduate research grant program. This effort is most productive and will, we anticipate, become more and more important as the Honors College program matures.

Annual Report--University Research Committee, 1976-1977

We believe the University Research Committee is one of the hardest working committees on campus. As evidence, we submit the fact that this committee met eighteen times this year.

We wish to extend our appreciation to this year's members of the Committee-- Carl Barnes, Carlo Coppola, G. Philip Johnson, Peter Keelin, Peter Schmidt, Beth Titus, Anne Tripp (fall semester), Gertrude White (winter semester), and Barry Winkler.

May 1, 1977

Summary

OAKLAND UNIVERSITY RESEARCH COMMITTEE

1976-1977

Type	Number of		Amount Awarded
	Proposals	Grants	
Small Grants	40	24	\$ 12,963.83
Fellowship	23	12	34,780.00
Materials/Equipment	12	12	17,427.00
Total Amount Awarded			\$ 65,170.83
Assistance for page charges, books, and reprints			\$ 2,688.70
Total			\$ 67,859.53

OAKLAND ALUMNI ASSOCIATION

Undergraduate Research Grants	11	9	\$ 1,870.00
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May 1, 1977
Office of Research and Instructional Services

SMALL GRANTS

Name/Department	Title	Amount Awarded
Sheldon Appleton/Political Science	"Sources of Presidential Popularity"	\$ 600.00
Jane Bingham/Education	"An Annotated Time Line: Tracing the Development of Children's Books from 520 to 1969 in Britain and America"	600.00
Gottfried Brieger/Chemistry	"Synthesis of Potential Hypolipidaemic Agents"	600.00
William Bryant/Modern Languages	"A Critical Edition of Martin de Leon's <u>Historia del huerfano</u> , a Peruvian manuscript of the seventeenth century"	458.00
Melvin Chernov/History	"Emigre Perspectives on Revolutionary Strategy: <u>Der Deutsche Eidgenosse</u> , 1865-1867"	70.00
Jennie B. Cross/Kresge Library	"Guide to Published Statistics in Michigan Documents"	580.00
David H. Evans/Donald Falkenburg/ Engineering	"Vehicular Traffic Simulator"	816.00
Robert Fink/Psychology	"The Growth of Self Concept in Childhood and Adolescence"	600.00
Thomas Friedman/Biological Sciences	"Temporal Control of a Tissue Specific Enzyme in <u>Drosophila</u> "	600.00
L. Nichols Grimes/Biological Sciences	"Do Glycosaminoglycans Mediate Different Epidermal-Dermal Interactions During Rabbit Ear Wound Scarring and Regeneration?"	600.00
Kenneth Harmon/Chemistry	"Polyhedral Water-Anion Cluster Species"	400.00
Algea Harrison/Psychology Jo Anne Minor/Education	"Coping Strategies and Life Satisfaction Among Black Working Women"	288.00
Egbert Henry/Biological Sciences	"The Study of Polyphenol Oxidase in Isolated Chloroplast Lamellae"	525.00
R. Douglas Hunter/Biological Sciences	"Lacustrine Productivity Assessment From Ash, Carbon, and Nitrogen Measurements of Aufwuchs"	520.00
Brian Livermore/Biological Sciences	"Synthesis of Nitrogenous Phospholipids by Pathogenic Spirochetes"	600.00
Asish Nag/Biological Sciences	"Reaggregation and Myosin Synthesis in Cultured Mammalian Heart Cells"	850.00
John Romeo/Biological Sciences	"Chemosystematic Studies in the Onagraceae"	600.00

Small Grants, continued

Name/Department	Title	Amount Awarded
Robert Stern/Chemistry David Stonner/Psychology	"Testing a Decision Tree Questionnaire for Undecided Undergraduate Majors"	\$ 194.83
Sue C. Tenorio/Jorge A. Herrera Education	"WISC Verbal-Performance Differences in Learning Disabled Children: Their Implications for Teaching Strategies"	300.00
Richard Tucker/History	"Environmental Politics in a Colonial Setting: Land Use in Bombay, 1870-1885"	362.00
Flavio Varoni/Music	"Producing and Editing Master Tape of Piano Music Material"	1,000.00
Gil Wedekind/Engineering	"Confer with Other Investigators on Two-Phase Flows and Heat Transfer, Istanbul, Turkey"	600.00
Tung H. Weng/Engineering	"A Study on the Solar Cell Energy Conversion Efficiency of Thin Film Cds-CdTe Mixed Crystals"	600.00
William White/Communication Arts	"A Critical Biography of Ernest Bramah"	600.00
FELLOWSHIP AWARDS		
Charles Akers/History	"Study of Religion Among Women, Blacks, and the Common People of Massachusetts During the American Revolution"	3,600.00
Carl Barnes/Art-Art History	"Monograph on Soissons Cathedral"	3,000.00
William Hoffman/Mathematics	"Theoretical and Experimental Aspects of the Lie Transformation Group Approach to Neuropsychology"	3,600.00
Virinder Moudgil, Biological Science	"Activation of Steroid Hormone Receptors in Reproductive Tissues"	2,600.00
Lawrence Orton/History	"Detroit's Polish Americans"	2,280.00
Carl Osthaus/History	"Southern Editors of the Nineteenth Century"	2,600.00
Colin Palmer/History	"English Slave Travel to Spanish America. During the Eighteenth Century"	3,400.00
Irwin Schochetman/Mathematics	"Banach Spaces of Vector Fields"	3,300.00

Fellowship Awards, Continued

Name/Department	Title	Amount Awarded
Christine Sloane/Chemistry	"Rayleigh Light Scattering From Polymers"	\$ 2,200.00
Sze-Kai J. Tsui/Mathematics	"Ordering Structure of a Vector Space"	2,300.00
Yel-Chiang Wu/Mathematics	"Cohomology Theories"	3,300.00
Harold Zepelin/Psychology	"Aging and the Quality of Human Sleep"	2,600.00

RESEARCH MATERIALS AND EQUIPMENT AWARDS

Name	Total Project Cost	Matching Funds	Amount Awarded
Biological Sciences	\$2,628.00	\$ 628.00	\$ 2,000.00
Chemistry	2,611.00	611.00	2,000.00
Engineering	2,500.00	500.00	2,000.00
English	180.00	36.00	144.00
Education (Early Childhood)	788.00	158.00	630.00
History	1,470.00	294.00	1,176.00
Kresge Library (Interlibrary Loan)	1,615.00	323.00	1,292.00
Mathematical Sciences	1,006.00	201.00	805.00
Physics	1,950.00	500.00	1,450.00
Political Science	2,900.00	900.00	2,000.00
Psychology	2,670.00	670.00	2,000.00
Sociology-Anthropology	2,412.00	482.00	1,930.00

UNDERGRADUATE RESEARCH AWARDS

A. Thomas Cirtin (Lyle Nordstrom-Music)	"An Investigation and Compilation of Musical Dictionaries of the Early Eighteenth Century"	\$ 200.00
James Dana Foster (Asish Nag-Biological Science)	"Regeneration of Adult Mammalian Skeletal Muscle"	200.00
Deborah Groschner (Lawrence Farley-Political Science)	"Urbanization, Education, and Political Socialization"	290.00
Jennifer Hartwig (Kenneth Harmon-Chemistry)	"Preparation and Infrared Spectral Studies of Water--Anion Clusters in Fluoride Dihydrates"	200.00
David Johnson (Denis Callewaert-Chemistry)	"Characterization of Immunosuppression by <u>Mycoplasma Arginini</u> "	200.00
Betty M. Petrella (Esther Goudsmit-Biological Science)	"Isolation and Identification of a Bacterium Which Uses Galactogen as a Sole Carbon Source"	200.00
Janelle Pierce (Craig Taylor-Chemistry)	"Nitrate Reduction Through Molybdenum"	200.00
William A. Prass, Jr. (John Romeo-Biological Science)	"An Ecogeographic Study of Imino Acids in <u>Ptelea</u> (Rutaceae)"	180.00
Barbara Ann Tysell (Frank Butterworth-Biological Science)	"Cell Death in Drosophila: Differential Rates of Protein Granule Formation in Larval Fat Bodies"	200.00

Assistance to faculty members for publication costs and the purchase of reprints, 1976-1977

Name	Department		Amount
Carl Barnes	Art/Art History		\$ 18.75
Peter Bertocci	Sociology/Anthropology		9.90
William Bezdek	Sociology/Anthropology		40.00
John Cameron	Art/Art History	(2)	37.50
George Coon	Education		41.50
Carlo Coppola	Modern Languages/Area Studies		24.75
Thomas Church, Jr.	Political Science		40.00
David P. Doane	Economics/Management		30.00
Jane Eberwein	English		25.90
David H. Evans	Engineering		35.54
David H. Evans/Donald Falkenburg	Engineering		16.00
Donald Falkenburg	Engineering		28.00
Geraldene Felton	Nursing	(3)	122.11
Robert S. Fink	Psychology		80.00
Thomas Friedman	Biological Sciences		40.00
Esther Goudsmit	Biological Sciences	(2)	80.00
Ranald Hansen/C. Lowe	Psychology		40.00
Egbert Henry	Biological Sciences	(4)	146.80
Allen Hess/Donald Neville	Psychology		58.75
R. Douglas Hunter	Biological Sciences	(2)	84.00
Boaz Kahana	Psychology		28.80
Jeffrey V. Mallow	Psychology		35.00
Donald E. Morse	English		24.00
Virinder Moudgil	Biological Sciences		40.00
Frederick W. Obear	Provost		6.25
Virginia O'Leary	Psychology		40.00
Barnett R. Parker	Economic/Management		40.00
Lewis N. Pino	Research/Instructional Services		24.00
Parbury Schmidt	Chemistry	(7)	260.82
Christine Sloane/Hasse	Chemistry		125.00
Harvey A. Smith	Mathematical Sciences		40.00
Amos Spector/R.D. Lyons	Psychology		40.00
Ronald Swartz	Education	(2)	58.97
Tung H. Weng	Engineering		25.00

Assistance to faculty members for purchase of authors' copies of books

Peter Bertocci, co-editor	Sociology		36.00
Carlo Coppola	Modern Languages/Area Studies		72.00
James Dow	Sociology/Anthropology	(2)	295.22
Joseph Klaitis	History		141.21
Sid Mittra	Economics/Management		109.40
Colin Palmer	History		118.84
Richard Tucker	History		80.09
Donald Warren	Sociology/Anthropology		48.60

May 1, 1977

Office of Research and Instructional Services