

June 20, 1980

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of the Provost

MEMORANDUM

TO: Frederick W. Obear, Chair
Senate Steering Committee

FROM: Denis Callewaert, Chair
University Research Committee

Lewis N. Pino, Director
Research and Instructional Services

SUBJECT: Annual Report of Research Committee, 1979-80

Attached is a detailed record of awards made during 1979-1980 from the Faculty Research Fund and the Alumni Association Undergraduate Research Fund.

Once again this year, the Office of Research Services, with the support of the Research Committee and the Provost, produced a bibliography listing faculty and staff contributions to Arts, Letters and Sciences. So far as we can tell, this document is being well used, both on campus and off campus. For example, copies have been mailed to all colleges and universities in the state, and to a number of other educational institutions.

The University Research Committee this year assumed responsibility as a co-sponsor of the annual Meadowbrook Hall Research Conference. A call for research conference proposals has been prepared and circulated. The closing date for this competition is September 15, 1980.

During the first semester, the Committee consisted of the following members: Denis Callewaert, James Dow, Esther Goudsmit, William Hammerle, William Hoffman, G. Philip Johnson, Thomas McCarthy, Lawrence Orton, Lewis Pino and Alfred Stransky. For the second semester Issac Eliezer replaced G. Philip Johnson, with Mr. Eliezer representing the Dean of Graduate Studies. Also, Lawrence Orton who went on sabbatical, was replaced by G. Franklyn Sayre, Art History.

Toward the end of the year the Committee began preliminary discussions on additional ways in which it might stimulate research and scholarly activity on the campus. It's expected that these discussions will continue and intensify during the year ahead.

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SUMMARY

OAKLAND UNIVERSITY RESEARCH COMMITTEE

<u>Type</u>	<u>Proposals</u>	<u>Grants</u>	<u>Amount Awarded</u>
Small Grants	32	19	\$11,951.00
Fellowships	28	17	57,400.00
Assistance for page charges, books, and reprints			<u>4,125.00</u>
TOTAL			73,476.00

OAKLAND UNIVERSITY ALUMNI ASSOCIATION

Undergraduate Research Grants	26	14	\$ 2,908.00
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SMALL GRANT AWARDS

Mary H. Delton (Chemistry) "Supplies for Improved Efficiency of Organic Synthesis Research"	\$ 310.00
Robert T. Eberwein (English) "The Limits of Analogy: The Search for a Critical Language"	170.00
John W. Garver (Political Science) "Soviet intent and American policy during the Sino-Soviet border crisis"	400.00
Robert Goldstein (Political Science) "Political Repression and Political Development in Europe, 1789-1914"	600.00
Oded Izraeli (Economics and Management) "The Effect of City Size on Wage Earnings"	550.00
Paul O. Kingstrom (Economics and Management) "Supervisor Characteristics and Interpersonal Characteristics as Determinants of Biases in Organizations"	680.00
William A. Macauley (Political Science) "Electoral Influences on the Prosecutor"	900.00
Cheryl W. Maglischo, and E.W. Maglischo (Physical Education) "An Investigation of the Anaerobic Threshold Mechanism during a season of competitive training"	250.00
Uwe Reischl/Fred Stransky (Health Sciences/Phys. Ed.) "Development of Laboratory Technique for Assessment of Clothing Generated Heat-Stress"	1800.00
Pamela Roberts (Psychology) "Imagery Strategies in the Aged: A Breakdown of the Problem"	580.00
Ann Sakai (Biological Sciences) "Geographical Location and Variation in Sex Expression in Silver Maple (Acer saccharinum)"	633.00
David Stevens (Communication Arts) "English Theatre, 1576-1642: A Reference Guide"	588.00
Robert B. Stewart, Jr. (Psychology) "Attachment Relations Among Siblings"	600.00
Helen J. Schwartz (English) "Research on the Effectiveness of a Computerized Readability Formula in Teaching Technical Writing"	700.00
Jim Dawson (Music) "Music for Saxophone"	1000.00
John Marney (Modern Languages) "Publication costs for <u>Nan-Pei-Ch'ao Studies #3</u> "	390.00
Richard Tucker (History) "The Bhil Tribes and Deforestation in West Khandesh"	600.00
Norman Tepley (Physics) "Presentation of Paper on Cardiology at 8th European Congress in Cardiology"	600.00
William A. Macauley (Political Science) "Public Restraint on Prosecutorial Decision Making"	600.00
Total Small Grants Awarded	<u>11951.00</u>

FELLOWSHIP AWARDS

Augustine Fosu (Econ. & Man.) "Fringe Benefits: An Efficient Form of Labor Earnings?"	\$ 3500.00
Alice C. Gorlin (Econ. & Man.) "The Impact of Soviet Industrial Policy on Industrial Performance in the Post-War Period"	3500.00
Robert Douglas Hunter (Biology) "Burrowing Mechanism in Two Marine Invertebrates"	3500.00
Joseph Klaitis (History) "Europe's Witch Trials: A Synthesis"	3400.00
Martin Linauts (Biology) "A Study of the Connections of the Subparafasicular Nucleus of the Rat Brain utilizing Axonal Transport Techniques."	3400.00
Daphna R. Oliver (Biology) "Isolation and Characterization of Plasmids in Clinical Strains of Streptococcus agalactiae"	3400.00
Colin A. Palmer (History) "Race and Class, the socioeconomic status of free peoples of African descent in eighteenth-century Mexico City"	3400.00
James K. Reynhout (Biology) "The Role of Monovalent Ions in Control of Cell Division and Differentiation"	3400.00
Darrell P. Schmidt (Math) "Rational Approximation on $(0, \infty)$ "	3300.00
Irvin E. Schochetman (Math) "A problem in the theory of continuous sums of Banach spaces"	3300.00
Nancy E. Shoemaker (Math) "Multiple Objective Programming"	3300.00
David Stevens (Communication Arts) "The King's Men at the Second Globe and the Blackfriars: Repertories and Staging Practices"	3300.00
Sze-kai Tsui (Math.) "Extreme positive linear maps and factor representation on C^* -algebras	3500.00
Stuart S. Want (Math) "Jacobian Problem"	3500.00
William White (Communication Arts) "Ernest Bramah: A Biographical and Critical Study"	3000.00
Stephen Wright (Math) "C-algebra"	3300.00
Yel-Chiang Wu (Math) "Cohomology Theories of Algebraic Categories"	<u>3300.00</u>
Total Fellowships awarded	57400.00

OAKLAND UNIVERSITY ALUMNI ASSOCIATION
 UNDERGRADUATE RESEARCH AWARDS

Kimberly Ann Adcock (History) "Contrasts in Historical Russian Architecture"	\$300.00
M. Sherry Bowman (Chemistry) "Urushiol and in-vitro Antitumor Immunity"	126.00
Vasundhara V. Chitnis (Environmental Health) "Occurrence and Identification of a Nematode in the Land Snail, <u>Helix pomatia</u>	292.00
Brent Earnshaw (Chemistry) "Investigation of Certain Metal Complexes for Chemotherapeutic Use"	100.00
Sandra Gennero (Biology) "Streptococcus agalactiae"	300.00
Vivian Elaine Grove (Medical Technology) "ATPase Activities and their location in the Retina"	100.00
John S. Heck (Biology) " <u>Acer saccharinum</u> "	75.00
Donald E. Nies (Chemistry) "The effect of X-irradiation on the uptake of glucose by lens"	150.00
Lesley Sellors (Biology) "The effect of platelet derived growth factor in the ocular lens"	140.00
Steven Smeekens (Biology/Chemistry) "A study of the three dimensional conformation of the active sites of three evolutionarily related aminoaldehyde dehydrogenases from a <u>Pseudomonas</u> species"	180.00
Tari L. Cooley (Spanish) "The Contemporary Latin American Theatre, a Bibliography of Women Dramatists"	245.00
Jeffrey Hansen (Biological Sciences) "Activation of Steroid Hormone Receptors by ATP at Low Temperatures"	300.00
Rhonda J. King (Psychology) "Mere Exposure Hypothesis Revisited"	300.00
Keith Youker (Biological Sciences) "Quercetin and its Effect on Development of Galactose Induced Cataracts in Prenatal Rats"	<u>300.00</u>
Total Undergraduate Awards	\$2,908.00