

UNIVERSITY RESEARCH COMMITTEE



ANNUAL REPORT

2006-2007



**University Research Committee
Annual Report
July 1, 2006– June 30, 2007**

This annual report includes a financial summary and itemized description of projects funded by or through the University Research Committee (URC) during the 2006-2007 operating cycle. The majority of the Committee's time was spent on the distribution of contract research funds. The Committee spent approximately \$240,095 to support faculty and student research endeavors, including \$14,000 in supplemental funding provided by the Office of the President. The URC would like to acknowledge three New Faculty Fellowships provided by Provost Virinder Moudgil.

The President's Colloquium Series was presented in October 2006 with **Sara Chapman**, Department of History, speaking on Detroit's founding and how the city fit into the French's grand plan. We are pleased that continued support is being provided by the President's Office for this important series. We are also grateful for Dr. Russi's continued support for the New Investigator Research Excellence Award and Research Excellence Award competitions. These awards provide a mechanism for the University community to recognize and celebrate the accomplishments of junior faculty, as well as faculty members who have many more years of research experience. This year the New Investigator Research Excellence Award went to **Dan Aloï**, Department of Electrical and Computer Engineering, and the Research Excellence Award went to Linda Benson, Department of History.

During my first year as Chair of the URC, all members of the committee worked diligently to promote research and scholarship at all units of Oakland University. As a result, the workload of the URC was increased by over 30% compared to the previous year.

Table 1. Comparison of applications received by the URC during the last two funding cycles.

Type of Applications	2005-06	2006-07
Faculty Research and Fellowships	44	71
Indirect Cost Recovery (ICR)	27	9
Student Research and Travel	38	54
President Colloquium	1	4
Research Excellence Award	1	6
New Investigator Award	2	3
Total Applications	113	147

The above table shows that the URC had a record number of applications this year in all categories of the URC programs, except the Indirect Cost Recovery, which will be phased out once the money runs out in the coming year. The amount of the URC workload parallels that of almost twice the workload of the NSF or the NIH review panels. In order to complete the review and disposition of all applications in a timely manner, the committee had to perform at a much higher level, meeting in longer sessions than regular senate committees. In addition to the members' dedication and hard work, a great deal of support from the offices of the Vice Provost, the Provost and the President was crucial in successfully managing the increased work

load. Because of increased activity and workload, the URC would need and appreciate an even higher level of support from the administration.

As has been stated in the previous reports, the \$4,000 allocated to the URC to cover student research and travel is not even close to the amount that would be required to cover the need. In view of a large pool of good quality applications from the students, the URC has been spending far more than the allocation for the last several years. For example, the URC spent \$7,850 last year and \$6,300 this year on students because most members of the URC strongly support student conducting research and attending conferences. However, previous URC reports have raised concerns regarding the spending of negotiated faculty money on students. Therefore, the URC requests that allocation of student money be raised to at least \$7,000.

I wish to express my great pleasure in serving on this important Committee and to thank all the members for their service during my first year as Chair: **T.C. Yih**, (ex-officio member), Vice Provost for Research; **Jerrold Grossman**, Department of Mathematics and Statistics; **James Hansen**, Department of Counseling; **Vincent Khapoya**, Department of Political Science; **Paul Licker**, Department of Decision and Information Sciences; **Charles Marks**, Department of Exercise Science; **Anne Mitchell**, School of Nursing; **Michael Mitchell**, Department of Music, Theatre, and Dance; **Sayed Nassar**, Department of Mechanical Engineering; **Kasaundra Tomlin**, Department of Economics. I would also like to acknowledge the professional help of Jean Miao and Barbara Kooiman, GCSR, which was crucial in handling and processing such a large number of applications in an orderly fashion and efficient manner.

G. Rasul Chaudhry

2006-2007 Chair, University Research Committee

URC Budget Status Report

URC FUNDS	Budget 2007	Awards 2007	Balance
URC Budget			
Faculty Budget Allocation	216,000.00		
Student Budget Allocation	4,000.00		
Provost Support 3 Additional Fellowship	25,500.00		
Carryforward Balance	72,644.40		
URC Programs			
Research Fellowships (with fringe benefits)		198,922.00	
Faculty Research		1,200.00	
Faculty Special Projects		1,200.00	
Student Research		1,500.00	
Student Travel		4,800.00	
MBH Conference Support		3,000.00	
Grant Writing Seminar		2,500.00	
Books, Reprints, Page Charges, etc.		1,057.24	
URC Meeting Expense		708.20	
TOTAL URC	318,144.40	214,887.44	103,256.96

ICR Budget	95,222.00		
Carryforward Balance	75,394.50		
ICR Programs			
Travel			
Mentorship			
Special Research Opportunity		16,500.00	
Supplemental Funds (with fringe benefits)		8,708.25	
TOTAL ICR	170,616.50	25,208.25	145,408.25

OFFICE OF THE PRESIDENT CONTRIBUTIONS

President's Colloquium Series	10,000	10,000
New Investigator Research Excellence Award	1,500	1,500
Research Excellence Award	<u>2,500</u>	<u>2,500</u>
Total Additional Budget Contributions	<u>14,000</u>	<u>14,000</u>

AWARDS BY UNIT***2006-2007**

UNIT	\$ Awarded by Unit	% OF TOTAL
College of Arts & Sciences		
Art and Art History	\$8,500	3.7%
Biological Sciences	\$19,100	8.2%
English	\$8,500	3.7%
History	\$18,200	7.8%
Linguistics	\$8,500	3.7%
Mathematics & Statistics	\$12,700	5.5%
Modern Literatures & Languages	\$25,500	11.0%
Music, Theatre & Dance	\$9,700	4.2%
Political Science	\$8,500	3.7%
Psychology	\$8,500	3.7%
Rhetoric, Communication and Journalism	\$8,500	3.7%
Eye Research Institute	\$25,000	10.8%
School Of Business Administration	\$17,000	7.3%
School of Engineering & Computer Science	\$26,700	11.5%
School of Health Sciences	\$18,800	8.1%
School of Nursing	\$8,500	3.7%
TOTAL	\$232,200	

*Fringe Benefits are not included.

FELLOWSHIP AWARDS

Name	Department	Proposal Title	Amount
Ari, Sitaramayya	Eye Research Institute	Mechanisms of Retinal Adaptation to Ambient Light	\$8,500
Bekele, Getnet	History	The Politics of Development and Agrarian Change in the Lakes Region of Ethiopia (1945-2000)	\$8,500
Creighton, Doug	Physical Therapy	Application of Translatory Spinal Manipulation in Adults with Neck Pain	\$8,500
Debnath, Debatosh	Computer Science & Engineering	Development of Computer-Aided Design Software for Complex Programmable Logic Devices	\$8,500
Dinda, Sumi	Health Sciences	Effects of LY117018, a SERM Analog of Raloxifene, on Tumor Suppressor Protein p53 and Proliferation of T47D Breast Cancer Cells	\$8,500
Drignel, Dorin	Mathematics & Statistics	A Computationally Efficient Statistical Surrogate Approach to Computer Experiments with Finite-difference Codes	\$8,500
Edwards, Kyle	English	Corporate Fictions: Film Adaptation and Authorship in the Classical Hollywood Era	\$8,500
Filler, Stephen	Modern Languages & Literatures	Nihilism and Politics in Modern Japanese Literature	\$8,500
Fu, Huirong	Computer Science & Engineering	Intrusion Classification, Modeling and Detection for Wireless Sensor Networks	\$8,500
Harris, Meghan	Nursing	Pediatric Simulation in Nursing Education: A Pilot Study	\$8,500
Isken, Mark	Decision & Information Sciences	Simulation Based Analysis of Hospital Pneumatic Tube Systems	\$8,500
Jumel, Caroline	Modern Languages and Literatures	The Aesthetics of Knowledge in Sand's "Jeanne"	\$8,500
Kim, Dong-Hun	Political Science	Why Subject Public Procurement to International Competition? Political Economy of Buy National Policy	\$8,500
Kissock, Madelyn	Linguistics	Approaches to Syntactic Change: Do-Support in the History of English	\$8,500
Lu, Lunjin	Computer Science & Engineering	Verifying Embedded Software	\$8,500
Matthews, Weldon	History	The United States and Iraq's First Revolutionary Regime, 1958-1963	\$8,500
Neely, Lynn	Psychology	Relationships and Health Behavior Study	\$8,500
Orzach, Ram	Economics	Jury Decision on Lesser Included Offense	\$8,500
Ostergaard, Lori	Rhetoric, Communication & Journalism	The Content of Her Nature: June Rose Colby, Women's Suffrage, and the Sapphonian Society, 1892-1907	\$8,500
Pobutsky, Aldona	Modern Languages & Literatures	Corporeal Poetics in the Twentieth-Century Latin American Women Writers	\$8,500
Stoffan, George	Music, Theatre, & Dance	A Postcard from Europe	\$8,500
Yu, Shuishan	Art & Art History	History and Architecture of Chang'an Avenue	\$8,500
Zhang, Ning	Biological Sciences	The Role PTEN in Human Breast Cancer Cell Chemotaxis	\$8,500
TOTAL			\$195,500

SPECIAL PROJECTS

Name	Department	Proposal Title	Amount
Karasch, Mary	History	Truck Rental in Tocantins, Brazil	\$1,200
TOTAL			\$1,200

FACULTY RESEARCH

Name	Department	Proposal Title	Amount
Laurie Eisenhower	Music, Theatre and Dance	Tribute	\$1,200
TOTAL			\$1,200

MEADOWBROOK HALL CONFERENCE GRANT

Name	Department	Proposal Title	Amount
Zhang, Wen	Mathematics & Statistics	Society for Industrial and Applied Mathematics (SIAM) Great Lakes Section 2007 Spring Meeting - Numerical Partial Differential Equations, Modeling, Algorithms and Applications	\$3,000
TOTAL			\$3,000

INDIRECT COST RECOVERY (ICR) AWARDS

Name	Department	Proposal Title	Type	Amount
Chintala, Shravan	Eye Research Institute	Role of extracellular matrix degrading proteases in the death of ganglion cells in Primary Open-Angle Glaucoma	Special Research Opportunities	\$16,500
Lal, Shailesh	Biological Sciences	Discovery and Expression Analysis of Helitron Family of Transposable Elements in Maize	Supplemental Funds	\$8,500
TOTAL				\$25,000

STUDENT TRAVEL AWARDS

Name	Department	Proposal Title	Amount
Ulicki, Anne	Physical Therapy	The Effects of an Eight-Week Unilateral Proprioceptive Balance Training Program on the Contralateral Lower Extremity in Healthy Female High School Age Athletes	\$400
Smith, Tonya	Physical Therapy	The Effects of an Eight-Week Unilateral Proprioceptive Balance Training Program on the Contralateral Lower Extremity in Healthy Female High School Age Athletes	\$400
al Sliety, Mazen	Electrical & Computer Engineering	Signal Processing Choices and Challenges for SDR in Telematics	\$400
Jameson, Natalie	Biological Sciences	Assessing the Abundance and Diversity of Helitrons in the Maize Genome	\$400
Wijesiri, Galbodayage	Mathematics & Statistics	Participation in the workshop : " What is the Algebraic Geometry ? " to be held in the Institute for Mathematics and its Applications in the University of Minnesota	\$400
Hewage, Jayantha Gan	Mathematics & Statistics	Participation in the workshop "What is the Algebraic Geometry." To be held in the Institute for Mathematics and its Applications in the University of Minnesota	\$400
Sanjeewa, Rakinawasan	Mathematics & Statistics	Participation in the workshop: "What is algebraic geometry?" to be held in the Institute for Mathematics and Its Applications in the University of Minnesota	\$400
Chen, Yixin	Electrical & Computer Engineering	Vehicle Tracking and Distance Estimation Based on Multiple Image Features	\$400
Kasprick, Daniel	Biological Sciences	An Intramembrane Glutamic Acid Governs Peripherin/rds Function For Photoreceptor Disk Morphogenesis	\$400
Saxena, Guarav	Computer Science & Engineering	IEEE Electro/Information Technology (EIT) Conference, May 17-20, 2007, Chicago, Illinois	\$400
Fecek, Chris	Biological Sciences	Characterization of Chondrogenic Derivatives of Embryonic Stem Cells	\$400
Tyranski, Kelli	Biological Sciences	Potential of Embryonic Stem Cell Derived Chondrogenic Cells for Treating Discogenic Disease	\$400
TOTAL			\$4,800

STUDENT RESEARCH AWARDS

Name	Department	Proposal Title	Amount
Taylor, Latoya	Physical Therapy	Reliability And Validity of the Neighborhood Characteristic Survey in an Urban Low Income African American Female Population	\$500
Prokopp, Lauren	Physical Therapy	Pain Experiences of Adolescents with Cerebral Palsy and the Perception of their Parents	\$500
McCann, Erin	Biological Sciences	Fate of Embryonic Stem Cells and Their Neural Derivatives Transplanted into Eyes of RPE65/rd12-Mice	\$500
		TOTAL	\$1,500