



## Grants, Contracts and Sponsored Research

Oakland University  
Rochester, Michigan  
August 31, 2008

**University Research Committee  
Annual Report  
August 15, 2007–August 14, 2008**

This annual report includes a financial summary and itemized description of projects funded by or through the University Research Committee (URC) during the 2007-2008 operating cycle. The majority of the Committee's time was spent on the distribution of contract research funds. The Committee spent approximately \$271,014 to support faculty and student research endeavors. The URC would like to acknowledge three New Faculty Fellowships provided by Provost Virinder Moudgil. In addition, \$14,000 in supplemental funding was provided by the Office of the President for encouraging scholarly activities of the faculty.

The URC is grateful for the continued support by President Russi for the President's Colloquium Series. In October 2007, the President's Colloquium Series lecture "To Live and Teach in Finland," was presented by Dr. Eileen Johnson, Department of Educational Leadership in the School of Education. The URC also recommended that the President's Colloquium Series be jointly awarded to Drs. David A. Dulio and Peter F. Trumbore, Department of Political Science for this year. We are also thankful for the President's support for the Research Excellence Award and New Investigator Research Excellence Awards. These awards provide a mechanism for the University community to recognize and celebrate the accomplishments of well established and junior faculty members. This year the Research Excellence Award went to Dr. Ravindra Khattree, Department of Mathematics and Statistics, and the New Investigator Research Excellence Award went to Dr. Matthew Sutton, Department of History.

During my second year as Chair of the URC, all members of the committee worked diligently to promote research and scholarship at all units of Oakland University. The workload of the URC has been steadily increasing compared to the previous years. As stated in last year's report, the URC's workload and performance parallel or exceed that of review panels of public and private funding organizations.

Table1. Comparison of applications received and funded by the URC during this funding cycle.

<b>Applications</b>	<b>Approved</b>	<b>Denied</b>	<b>Total</b>
Faculty Research Fellowship	25	25	50
Faculty Research Project	5	8	13
Meadow Brook Hall Conference	1	1	2
ICR Special Research Opportunity	2	2	4
Student Research	3	10	13
Student Travel	21	15	36
President Colloquium Series	1	7	8
Faculty Research Excellence	1	0	1
Faculty New Investigator Res. Excellence	1	1	2
<b>TOTAL</b>	<b>60</b>	<b>68</b>	<b>129</b>

Despite the dedication and hard work of all members of the URC and commendable support from the offices of the President, Provost and Vice Provost for Research, additional support for efficient and effective management of the application review process would be helpful.

Also as 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, \$6,300, and \$8,084, during the years 2005-06, 2006-07, and 2007-08, respectively on students because most members of the URC strongly support students 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 \$8,500.

**In addition, the amount of faculty fellowship has not been increased for the past decade despite the worsening inflation trend. I would like to request that the university consider revising the fellowship amount to \$10,000.**

Finally, I wish to express my gratification in serving on this important Committee and to thank all the members for their service during my second year as Chair: **T.C. Yih**, (ex-officio member), Vice Provost for Research; **Laila Guessous**, Department of Mechanical Engineering; **Eileen Johnson**, Department of Educational Leadership; **Vincent Khapoya**, Department of Political Science; **Paul Kubicek**, Department of Political Science; **Mildred Merz**, Library; **Anne Mitchell**, School of Nursing; **Sayed Nassar**, Department of Mechanical Engineering; **Kasaundra Tomlin**, Department of Economics; **Lynne Williams**, School of Health Sciences. I would also like to acknowledge the professional help of Susan Willner, GCSR, and Daphne Pesek (a student in my lab), which was crucial in handling such a large number of applications in an orderly fashion and efficient manner.

**G. Rasul Chaudhry**

2007-2008 Chair, University Research Committee

**UNIVERSITY RESEARCH COMMITTEE  
AWARD SUMMARY  
FISCAL YEAR 2008  
(Prepared by the GCSR)**

	Budget 2008	Awards 2008	Balance
Faculty Budget Allocation	216,000.00		
Student Budget Allocation	4,000.00		
<b>URC Programs</b>			
Research Fellowships		216,260.00 *	
Faculty Research		6,000.00	
Faculty Special Projects		-	
Student Research		1,084.00	
Student Travel		7,000.00	
MBH Conference Support		3,000.00	
ICR Special Research Opportunity		35,000.00	
Grant Writing Seminar Books, Reprints, Page Charges, etc.		- 2,575.00	
URC Meeting Expense		95.21	
<b>TOTAL URC</b>	<u>220,000.00</u>	<u>271,014.21</u>	<u>(51,014.21)</u>
Carryover Balance			100,855.68
Unused Award Return Balance			<u>4,791.24</u>
<b>TOTAL URC BALANCE</b>			<u><u>54,632.71</u></u>

\* \$212,500 + Fringe Benefits \$3,760 = \$216,260

## Faculty Research Fellowship Awards 2008

Awardees	Department	Project Title	Award
Baillargeon, Claude	Art & Art History	Shadows of the Invisible: Nuclear Landscape and Radiation Poisoning in Photography	8,500
Battles, Kathleen	Rehetoric, Communication and Journalism	Local Practice, National Impact: Understanding the Significance of WXYZ	8,500
Carr, Douglas	Political Science	A Spatial Approach to School Choice: Decision Factors and Policy Implications	8,500
Gao, Qian	Modern Languages and Literatures	A Book Project: Remembering the Cultural Revolution- History, Memory and Nostalgia in the Marketplace	8,500
Gooren, Henri	Sociology & Anthropology	The Pentecostalization of Religion and Society in Paraguay and Chile	8,500
Kerrigan, Nessian	Chemistry	The Organocatalyzed Dimerization of Ketoketenes	8,500
Laam, Kevin	English	The Elizabethan <i>Consolatio</i>	8,500
Lee, Ji-Eun	Teacher Development and Educational Studies	Elementary Grade Students' Understanding of Algebraic Variables: Building Foundations	8,500
Licker, Paul	Decision and Information Sciences	The Two Cultures and the Internet Revolution	8,500
Liu, Zijuana	Biological Sciences	Arsenic Accumulation in Zebrafish ( <i>Danio rerio</i> )	8,500
Martin, Craig	History	Averroes and Islamic Philosophy in Renaissance Italy	8,500
Palmer-Mehta, Valerie	Rehetoric, Communication and Journalism	The Representation of Masculinity in the Films of M. Night Shyamalan	8,500
Pedroni, Thomas	Teacher Development and Educational Studies	Confronting the pedagogy of empire: Responding to the crisis in social studies since Abu Ghraib	8,500
Qian, Hong	Accounting and Finance	Seasoned Equity Issuers' Research and Development Decisions: Theory and Evidence	8,500
Qu, Xianggui	Mathematics and Statistics	Optimal Design in High Throughput Screening	8,500
Raman, Lakshmi	Psychology	Children's and adults' beliefs about the role of nutrition on biological and psychological processes.	8,500
Schweitzer, Linda	Chemistry	Development of New Technique for Sewage Contaminant Source Tracking	8,500
Simon, Mark	Management and Marketing	The Relationship Among Strategic Planning Processes, Innovation, and Business Success	8,500
Sutton, Matthew	History	American Evangelicals and the Politics of Apocalypse	8,500
Suvas, Susmit	Biological Sciences	Role of Programmed Death Receptor-1 molecule in determining age-associated decline in T cell function	8,500

Tardella, Sally	Art and Art History	Witness	8,500
Towner, Terri	Political Science	A Political Economy of War: Individual-level American Public Opinion and the Iraq War	8,500
Wang, Xia	Mechanical Engineering	An Optimal Design of PEM Fuel Cell Stack Manifolds	8,500
Yumibe, Joshua	English	French Coloring Aesthetics of Early Cinema	8,500
Zou, Qian	Mechanical Engineering	Nanofluids: Fundamentals and Applications	8,500
		* Total	<b>\$212,500</b>

### Faculty Research Project Awards 2008

Awardees	Department	Project Title	Award
Christ, Tanya	Reading and Language Arts	Strategies for Teaching Meaning Vocabulary in Early Childhood	1,200
Dulio, David	Political Science	From Online Newspapers to YouTube: Examining Exposure to Internet Sources	1,200
Eisenhower, Laurie	Music, Theatre and Dance	Healthy Kids	1,200
Hoag, Melissa	Music, Theatre and Dance	Arnold Schoenberg and Brahm's Op. 36 Sextet	1,200
Karasch, Mary	History	Truck Rental in Tocantins, Brazil	1,200
		Total	<b>\$6,000</b>

### Meadow Brook Hall Conference Grant 2008

Awardees	Department	Project Title	Award
Dinda, Sumi	Health Sciences	First Mid-West Conference on Stem Cell Biology and Therapy	3,000
		Total	<b>\$3,000</b>

### ICR Special Research Opportunity 2008

Awardees	Department	Project Title	Award
Dinda, Sumi	Health Sciences	Estrogen-like effects of Thyroid Hormone and Anti-Hormones on the Regulation of Tumor Suppressor Genes BRCA-1 and BRCA-2 in Breast Cancer Cells	20,000
Hitt, Anne	Biological Sciences	Digital Image Acquisition Hardware and Software for Microscopy	15,000
		Total	<b>\$35,000</b>

### Student Research Awards 2008

Awardees	Department	Project Title	Award
Busch, Jonathan	Music, Theatre and Dance	Video Portfolio Assessment in the Choral Ensemble	394
Studnicka, Michael	Health Sciences	Investigation of Physical Therapy Services Provided by Established Pro-bono Physical Therapy Clinics throughout the United States	300
Zywiol, Lori	Health Sciences	Women's Attitudes about Physical Therapy who have Undergone Breast Cancer Treatment	390
		<b>Total</b>	<b>\$1,084</b>

### Student Travel Awards 2008

Awardees	Department	Project Title	Award
Bronzowski, Jaime	Biological Sciences	Isolation of Multipotent Human Umbilical Cord Blood Stem Cells	100
Bronzowski, Jaime	Biological Sciences	Toxicity of Gold Nanoparticles in Embryonic Stem Cells	400
Brusca, Julie	Nursing	First Midwest Conference on Stem Cell Biology and Therapy	125
Chilukoti, Naveen	Electrical & Computer Engineering	Assistive Technology for Promoting Physical and Mental Exercise to Delay Progression of Cognitive Degeneration in Patients with Dementia	400
Fecek, Chris	Biological Sciences	Regeneration of Disc Tissue using Chondrocyte Progenitors derived from ESCs in a Degenerative Disc Model	125
Fecek, Chris	Biological Sciences	Regeneration of Nucleus Pulposus using ESC-Derived Chondroprogenitors in a Rabbit Disc Degeneration	400
Felczak, Brian	Health Sciences	Examination of Sensation Recovery in Patients Post-Spinal Cord Injury while Participating in an Innovative Intense Rehabilitation Program	400
Herzfeld, Jamie	Psychology	"With or without you": Individual differences in attachment and love in emergent adulthood	400
Hotelling, Claire	Psychology	Family Context and Decisions About Sexual Activity Among Late Adolescents	400
Karki, Kishor	Physics	Magnetic Resonance Imaging Assessment of ongoing Tissue changes in Rat Brain after Stroke	400

Malcomson, Kendra	Health Sciences	Lumbar Spine Mobility of Ambulatory Adolescents with Cerebral Palsy	400
Mandeville, Kelly	English	Present Paper at 2008 Dickens Symposium, Kingston University, London, 17-20 July 2008	400
Narayanan, Kannan	Business Administration	Globalization's Impact on Cultural Structures of BRIC Countries	400
Rathugamage, Sriyani	Mathematics and Statistics	Dynamic and Quasistatic Adhesive Contact of a Membrane	400
Sanchez, Amelita	Biological Sciences	First Midwest Conference on Stem Cell Biology and Therapy	125
Sanjeewa, Rakinawasan	Mathematics and Statistics	Participation in the conference NATO Advanced Study Institute "New Challenges in Digital Communications" in Vlora, Albania	400
Shukla, Neetu	Physics	Use of MEG Coherence Imaging in Localization of an Epileptogenic Focus	400
Sniady, Adam	Chemistry	Synthesis of substituted furans and furanopyrimidine 2'-deoxyribonucleosides: 5-Endo-dig electrophilic cyclization of alk-3-yn-1-ones at room temperature	400
Steiner, Jenna	Psychology	Individual Differences in Emerging Adult Explorations of Self-Identity and Relationship Formation	400
Zachwieja, Julie	Biological Sciences	First Midwest Conference on Stem Cell Biology and Therapy	125
Zitrick, Allison	Psychology	Title: "I still haven't found what I'm looking for": Individual differences among emergent adults in their explorations of self-identity and relationship formation	400
		<b>Total</b>	<b>\$7,000</b>