



**University Research Committee
Annual Report
July 1, 2002 – June 30, 2003**

This annual report includes a financial summary and itemized description of projects funded by or through the University Research Committee during the 2002-2003 operating cycle. As this report indicates, the majority of the Committee's time was spent on the distribution of contract research funds. The Committee spent approximately \$194,000 to support faculty and student research endeavors, including \$18,000 in supplemental funding provided by the Office of the President.

The sixth year of the President's Colloquium Series was broken down into two programs, one during Fall semester and one during Winter semester. The two speakers were **Alice Horning**, Department of Rhetoric, Communications and Journalism; and **Frances Jackson**, School of Nursing. Each colloquium featured a program on the individual faculty member's research. We are pleased that continued support is being provided for this important series.

We are also grateful for Dr. Russi's commitment of 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, along with faculty members who have many more years of research experience. This year the New Investigator Research Excellence Award went to **John Seeley**, Department of Chemistry, and the Research Excellence Award went to **Nan Loh**, School of Engineering and Computer Science.

I wish to express my great pleasure in serving on this important Committee and to thank all the members for their service during my term as Chair: **Hoda Abdel-Aty-Zhody**, School of Engineering and Computer Science; **Rasul Chaudhry**, Department of Biological Sciences; **Ranald Hansen**, (ex-officio member), Office of Vice Provost for Research and Graduate Study; **Frances Jackson**, School of Nursing; **Ravindra Khatree**, Department of Mathematics and Statistics; **Beth Marcoux**, School of Health Sciences; **Mark Metzler**, Department of History; **Margaret Pigott**, Department of Rhetoric, Communications and Journalism; **Ann Porter**, School of Education and Human Services; and **Ron Rapin**, Department of Modern Languages and Literatures.

Mark W. Severson
2002-03 Chair, University Research Committee

**UNIVERSITY RESEARCH COMMITTEE
AWARD SUMMARY
FISCAL YEAR 2003**

TOTAL URC BUDGET **\$176,000**

Research Fellowships (18 @ \$8,500)	\$153,000
Fringe Benefits (1.45%)	2,233
Fellowship Bonus Reserve	1,689
Faculty Research Grants/Special Projects	7,000
Faculty Research Workshop	2,500
Student Research/Travel Grants	4,993
Meadow Brook Hall Conference Support	3,000
President's Colloquium Series	1,000
Page Charges	585
TOTAL URC CONTRIBUTIONS	\$176,000

BALANCE **\$0**

OFFICE OF THE PRESIDENT CONTRIBUTIONS

President's Colloquium Series	\$10,000
New Investigator Research Excellence Award	1,500
Research Excellence Award	2,500
Student Research/Travel Grants	4,000
TOTAL PRESIDENTIAL CONTRIBUTIONS	\$18,000

TOTAL URC & PRESIDENTIAL CONTRIBUTIONS **\$194,000**

Proposal Title	Last Name	First Name	Department	Type of Funding
Lettie Alston and Friends Present Music by Women Composers	Alston	Lettie	Department of Music, Theatre and Dance	Special Project Grant
Vying for Industrial Supremacy: Public Works & Photographic Propaganda in Nineteenth-Century French Archives	Baillargeon	Claude	Art and Art History	Fellowship
A Proposed Law of Face Recognition by Similarity	Cahlon	Baruch	Mathematics and Statistics	Faculty Research Grant
Prediction of a Radial-Ply Tire's In-Plane Free Vibration Modes Transmissibility	Chang	Yin-ping	Mechanical Engineering	Fellowship
Modeling the Active Site of Iron Superoxide Dismutase	Chavez	Ferman	Chemistry	Fellowship
The Detroit Labor Oral History Project - Stage II	Clark	Daniel	History	Faculty Research Grant
The Permanent Campaign in the United States Congress: Using Campaign Techniques to Govern	Dulio	David	Political Science	Faculty Research Grant
"Myth and Magic"	Eisenhower	Laurie	Music, Theatre and Dance	Special Project Grant
Tibial Nerve Motor Conduction with Recording from the First Dorsal Interosseous & Abductor Digiti Minimi Muscles	Galloway	Kathleen	Physical Therapy	Fellowship
Role of Cell-Cell Communications in Inherited Eye Disease	Goldberg	Andrew	Eye Research Institute	Fellowship
"Discovery of 'Helitron' Type Transposable Elements In Maize Genome	Gupta	Smriti	Biological Sciences	Student Travel Grant
Adrian Willaert: A Guide to Research (Routledge/Garland Series)	Kidger	David	Music, Theatre and Dance	Special Project Grant
Searching for Alternatively Spliced Genes in Arabidopsis thaliana	Lal	Shailesh	Biological Sciences	Fellowship
"Improving Radiator Design Through Shape Optimization"	Maddipatla	Sridhar	Mechanical Engineering	Student Travel Grant
Hormonal Regulation of Steroid Receptors, p53 and v-src in Breast Cancer Cells	Mirijanian	Narine	Department of Biological Sciences	Student Travel Grant
"Hormonal Regulation of Proto-oncogene, c-Scr, in Breast Cancer Cells"	Mirijanian	Narine	Department of Biological Sciences	Student Research Grant
A Proposal to Empirically Investigate Investor Psychology in the Foreign Exchange Market	Murphy	J. Austin	Accounting and Finance	Fellowship
Fusion	Patterson	Gregory	Department of Music, Theater and Dance	Special Project
Examining Third Wave Feminism	Reger	Jo	Sociology and Anthropology	Fellowship
Adam Smith's Natural Law Politics and Jurisprudence	Rigstad	Mark	Philosophy	Fellowship

Sequential Fragmentation and the Emergence of Order in Nature	Rojo	Alberto	Physics	Faculty Research Grant
Analysis of Survival Data with Dependent Competing Risks	Sen	Ananda	Mathematics and Statistics	Fellowship
Numerical Simulation of Bacterial Colonization Inside a Human Intestine	Shi	Peter	Mathematics and Statistics	Fellowship
Magnetisation Dynamics in Magnetic Stripes and Dots – A New Media for High-Density Magnetic Recording	Slavin	Andrei	Physics	Fellowship
Giant Magnetoelectric Effects in Ferromagnetic-Ferroelectric Heterostructures	Srinivasan	Gopalan	Physics	Fellowship
An Intelligent Agent Approach to Query Processing on the Semantic Web	Sugumaran	Vijayan	Decisions and Information Sciences	Fellowship
Bacterial Detoxification of Toxic Substituted Aromatic Compounds	Walia	Satish	Biological Sciences	Fellowship
Students' Locus of Control & Their Learning Experiences in Web-Supplemented Instruction	Wang	Danhua	Reading & Language Arts	Student Travel Grant
Development of Digital Holography for Application in Biomedical Engineering	Yang	Lianxiang	Mechanical Engineering	Fellowship