



UNIVERSITY RESEARCH COMMITTEE

**ANNUAL REPORT
FISCAL YEAR 2004**



**University Research Committee
Annual Report
July 1, 2003 – June 30, 2004**

This annual report includes a financial summary and itemized description of projects funded by or through the University Research Committee during the 2003-2004 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 **\$196,000** to support faculty and student research endeavors, including **\$16,000** in supplemental funding provided by the Office of the President.

The sixth year of the President's Colloquium Series was presented in March. The speaker was **Sean Farrell Moran**, Department of History. The colloquium featured a program on Professor Moran'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 **Donggang Yao**, Department of Mechanical Engineering, and the Research Excellence Award went to **Robert Goldstein**, Department of Political 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: **Ronald Olson**, (ex-officio member), Interim Vice Provost for Research; **Amanda Bryant-Friedrich**, Department of Chemistry; **Rasul Chaudhry**, Department of Biological Sciences; **Shravan Chintala**, Department of Biological Sciences; **Brian Connery**, Department of English; **Eric Follo**, Department of Educational Leadership; **Ravindra Khatree**, Department of Mathematics and Statistics; **Sarah Newton**, School of Nursing; **Balaji Rajagopalan**, Department of Decision and Information Sciences; and **Cynthia Schellenbach**, Department of Sociology.

Hoda Abdel-Aty-Zohdy
2003-04 Chair, University Research Committee

UNIVERSITY RESEARCH COMMITTEE
AWARD SUMMARY
FISCAL YEAR 2004

Fiscal Year 2003 Balance	\$12,736
Revenue From Various Old URC Funds Closing	
Contract Allocation	192,000
Student Award Allocation	<u>4,000</u>
TOTAL ALLOCATION	\$209,787

Research Fellowships	\$168,584
Faculty Research Grants/Special Projects	3,210
Proposal Development Workshop	3,089
Student Research/Travel Grants	6,570
Meadow Brook Hall Conference Support	3,000
MBAG Dickens Exhibition	500
President's Colloquium Series - Entertainment	200
Books, Reprints & Page Charges	227
Reserve	<u>24,407</u>
TOTAL URC EXPENDITURES	\$209,787

BALANCE \$0

*This prior year award was executed and expensed in Fiscal Year 2003.

OFFICE OF THE PRESIDENT CONTRIBUTIONS

President's Colloquium Series	\$10,000
New Investigator Research Excellence Award	1,500
Research Excellence Award	<u>2,500</u>
TOTAL ADDITIONAL BUDGET CONTRIBUTIONS	\$14,000

TOTAL URC & OTHER CONTRIBUTIONS **\$223,787**

FELLOWSHIP AWARDS 2003-2004

Name/Dept.	Proposal Title	Amount
Linda Benson <i>History</i>	"China's Young Marshal: The Life of Zhang Xueliang"	\$8,500
Gladys Cardiff <i>English</i>	"They Hide Now in Deep Pools"	\$8,500
Annette Gilson <i>English</i>	"Irene Out of America"	\$8,500
John Halpin <i>Philosophy</i>	"The Empiricist Concept of Scientific Law"	\$8,500
Nancy Joseph <i>English</i>	"Exploring Academic Literacy: Teaching Secondary Students to Develop Metacognitive Function in their Reading & Writing"	\$8,500
Krzystof Kobus <i>Mechanical Engineering</i>	"Feasibility of the Hydrogen Economy"	\$8,500
Jia Li <i>Computer Science and Engineering</i>	"Computer-Aided Diagnosis of Lung Nodules Based on Adaptive CT Segmentation"	\$8,500
Ledong Li <i>Reading and Language Arts</i>	"The Role of Phonology in Reading Chinese Characters and Words"	\$8,500
Don Matthews <i>History</i>	"Palestinian Politics and Identity, 1939-1948"	\$8,500
John McEneaney <i>Reading and Language Arts</i>	"Designing Materials to Support Reading & Learning Online"	\$8,500
Debra McGinnis <i>Psychology</i>	"Language Processes in Older Adults: Implications for Earlier Diagnosis of Alzheimer's Disease"	\$8,500
Zissimos Mourelatos <i>Mechanical Engineering</i>	"Reliability-Based Design Optimization with Stochastic & Interval Design Variables"	\$8,500
Aldona Pobutsky <i>Modern Languages and Literatures</i>	"Sentimentalism in Obscene Landscapes: Zoe Valdes's Te Di La Vida Entera"	\$8,500
Rajeev Singhal <i>Accounting and Finance</i>	"Do Stock Option Grants Influence Managers to Make Value Destroying Decisions"	\$8,500
Monica Tracey <i>Human Resource Development</i>	Instituting a Lean Transformation: The Human Resource Development Department & the Pawley Institute"	

**FELLOWSHIP AWARDS
2003-2004**

continued

Name/Dept.	Proposal Title	Amount
Peter Trumbore <i>Political Science</i>	"Rhetoric or Reality? Rogue States in International Conflict, 1980-2001"	\$8,500
Mark Werner <i>Mathematics and Statistics</i>	"Computationally Efficient Identification of Outliers in Large Data Sets"	\$8,500
Margaret Willard-Traub <i>Rhetoric, Communication & Journalism</i>	"The Rhetoric of Contemporary Death Penalty Mitigation"	\$8,500
Qian Zou <i>Mechanical Engineering</i>	"Electrorheological Fluid - A Promising Intelligent Material"	\$8,500

SPECIAL PROJECT AWARDS 2003-2004

Name	Proposal Title	Amount
Baruch Cahlon <i>Mathematics and Statistics</i>	"The Catch Model: A Theoretical and Practical Proposal"	\$1,500
Laurie Eisenhower <i>Music, Theatre and Dance</i>	"Music in Motion"	\$1,400
Daniel Ring Kresge Library	"Remembering Frederick I. Olson: Historian, Bookman, Scholar"	\$660
Joel Russell <i>Chemistry</i>	"Development and Assessment of Dual-Language Web-Based Software for Enhancing Chemical Visualization Skills of Introductory Chemistry Students"	

STUDENT RESEARCH GRANT AWARDS 2003-2004

Name	Proposal Title	Amount
Sarah Cholger-Blust <i>Biological Sciences</i>	"Aquatic Vascular Plants of Lake St. Clair: A Survey of Community Status & Interactions with the Exotic Zebra Mussel"	\$500
Nicole Edwards <i>Health Sciences</i>	"Criteria Physical Therapists Use in Delegating Tasks to Physical Therapist Assistants & Their Knowledge of Published Guidelines for Delegation: A Survey of Michigan Physical Therapists"	\$1,300
Deborah Morowski <i>Biology</i>	"Freshwater Mussels in the Upper Clinton River: Sub-Lethal Impact of Zebra Mussels and a Survey"	\$500
Maila Perkio <i>Chemistry</i>	"Development of Therapeutics for Free Radical and Oxidative Stress: Superoxide Dismutase Mimics"	\$650
Christina Stieve <i>Physical Therapy</i>	"Incidence & Reasons for Non-Compliance of 13-18 Year Olds with Chronic Disabilities Receiving Physical Therapy with a Home Exercise Program"	\$500
Magdalena Syjud <i>Health Sciences</i>	"Gait Initiation in Healthy Young, Healthy Old, and Persons with Parkinson's Disease, Multiple Sclerosis, Post-Cerebral Vascular Accident"	\$500
Sheel Walvekar <i>Physical Therapy</i>	"The Effectiveness of Iontophoresis Versus Phonophoresis of Dexamethasone in Pain Reduction for Subjects Between 30 & 60 Years of Age Experiencing Shoulder Tendonitis"	\$199

STUDENT TRAVEL GRANT AWARDS 2003-2004

Name	Proposal Title	Amount
Jacob Allen <i>Electrical Engineering</i>	"A Digital Spiking Neural Network for Odorant Learning and Discrimination: Theory, Simulation, and FPGA Implementation"	\$400
Theodore Bolak <i>English</i>	"Untamed' Species: Children and 'Savages' in Sedgwick's Hope Leslie"	\$500
Daniel Dybowski <i>Sociology & Anthropology</i>	"The Potential of Cultural Evolution - Belonging to the Overall Project of 'Breaking the Blank Slate: Evolutionary Approaches in Cultural Anthropology'"	\$400
Jessica Holman <i>Sociology & Anthropology</i>	"Evolutionary Theories of Homosexuality & Homophobia"	\$400
Steven Psaros <i>Biological Sciences</i>	"Effects of Endocrine Disruptors on the Growth and Development of Embryonic"	\$400
Stephen Alex Ruthmann <i>Music, Theatre, & Dance</i>	"Collaborative Creating and Pre-Service Generalist Teachers' Emergent Musical Self-Efficacy"	\$400
Stephen Alex Ruthmann <i>Music, Theatre, & Dance</i>	"Enabling Emergent Musical Creativity in a Class for Elementary Education"	\$400
Julie Sharpe <i>Sociology & Anthropology</i>	"Breaking the Blank Slate: Evolutionary Approaches in Cultural Anthropology"	\$400
Lily Sloan <i>Music, Theatre, & Dance</i>	"Crossing Cultures Onstage: The Blending of Italian Commedia Dell Arte with Contemporary American Dance"	\$400
Aaron Smith <i>Biological Sciences</i>	"Cytotoxicity of Carbofuran in Human Embryonic Stem Cells"	\$400