

# RESEARCH NEWS

From the Office of Research and Sponsored Programs - Serving the Research Community of Wright State University

Winter-Spring 2000 Vol 31 No 2

201J University Hall Telephone 775-2425

## Research Incentive Awards

RSP is pleased to announce the award recipients for the FY 2000 Research Incentive Program. The Research Initiation competition attracted 18 proposals of which 8 were selected for funding for a

total of \$61,695. There were 12 proposals in response to the Professional Development competition with 7 awarded for a total of \$17,100.

### Research Initiation

**AbdulAwwal**

Engineering and Computer Science  
\$8,000

*Optical Database Management for Very Large  
Multimedia Digital Archives*

**DavidDolson**

Science and Mathematics  
\$7,995

*Chemical Kinetics Studies of Atmospheric Interest*

**Julian Gomez-Cambroner**

School of Medicine  
\$8,000

*cDNA Cloning of a New Isoform of Phospholipase D*

**CraigHarvey**

Engineering and Computer Science  
\$8,000

*Sequential Coordination: Elements of a Successful Hand-Off  
and IT ( Information Technology)*

**NathanKlingbeil**

Engineering and Computer Science  
\$8,000

*The Behavior of Short Interface Cracks Near the Free-  
Edge of Bonded Bimaterial Layers*

**LingRothrock**

Engineering and Computer Science  
\$8,000

*Understanding Human Decision Making in Dynamical  
Information Environments—A Dynamic Lens Framework*

**MaryWenning**

Liberal Arts  
\$8,000

*The Status of Women in the Miami Valley Region*

**TimothyWood**

Science and Mathematics  
\$5,700

*Molecular Genetics of Freshwater Bryozoans*

### Professional Development

**DeborahCrusan**

Liberal Arts  
\$2,100

*A Contextual Definition of Effective Writing*

**CarolEngelhardt**

Liberal Arts  
\$2,500

*Victorians and the Virgin Mary: Religion, National Identity,  
and the Woman Question in England, 1830-1880*

**DianeFitch**

Liberal Arts  
\$2,500

*Large Figure Compositions*

**CharlesFunderburk**

Liberal Arts  
\$2,500

*Internationalizing General Education*

**RonaldHelms**

Education and Human Services  
\$2,500

*WWW Resources for a Multi-cultural Website*

**JacksonLeung**

Liberal Arts  
\$2,500

*Professional CD Recording: Twentieth-Century American  
Dance Music for 2 Pianos*

**JuliaReichert**

Liberal Arts  
\$2,500

*Living with Lions*

### In This Issue

<i>Notes from the Director</i> .....	2
<i>Post Award News</i> .....	3
<i>Awards</i> .....	4
<i>Research Challenge Awardees</i> .....	12

There seems to be increased media attention on the potential negative influence of money in research. The concern focuses on funding provided by for-profit companies and the fear is that universities (and their faculty members) are acting more and more like corporations and losing their commitment to serving the public good. The principal areas where the press thinks this is happening are drug studies and technology transfer. A couple of recent examples are an article called "The Kept University" in last month's *Atlantic Monthly* and an op-ed piece in the March 10, 2000, *Chronicle of Higher Education* called "Money is Putting People at Risk in Biomedical Research."

These concerns are not new but the increased visibility has turned up some disturbing anecdotes. Most observers would probably agree that, just because a few university administrators or researchers have had their judgment clouded — or even blinded — by dollar-

green shaded glasses, this does not mean the entire research enterprise is corrupt. On the other hand, the relationship between academia and industry can never be viewed except with a great deal of caution.

At Wright State, we have policies and procedures that are designed to help us monitor and, if necessary, manage potential conflicts of interest, and we have similar protections in the area of scientific misconduct.

We also maintain a high level of interest in and awareness of national discussions, opinions, trends, and upcoming regulatory changes. A recent

FDA audit of our human subjects review procedures was completed with not a single recommended change. And so I *think* we are in pretty good shape to avoid the difficulties that some other schools have had. But perhaps we could be doing some things differently, and, if so, I should very much like to hear your thoughts and suggestions.

Bill Sellers

Notes  
From  
the Director

## Multi-site research just got easier...

Wright State and Children's Medical Center of Dayton (CMC) have entered into an agreement that should help reduce administrative burdens on faculty conducting certain kinds of research involving human subjects. In the past, Wright State faculty who wanted to conduct such research at CMC had to wait until human subjects use was approved by both Institutional Review Boards before beginning work. The new agreement will allow the work to begin at CMC as soon as the CMC Institutional Review Board gives the go-ahead. Of course, the WSU

IRB must also approve the research and, if necessary, can impose changes or even disapprove it. However, the kinds

of research projects covered by the agreement are limited to studies of the safety or efficacy of drugs that are being conducted at multiple sites around the country. Thus the protocols will have had extensive national review prior to being initiated locally, and the likelihood of any revisions being necessary is small.

The agreement also covers situations where a researcher is doing a study at Wright State and needs IRB approval from both WSU and CMC. In other words, the work could start as soon as the WSU IRB approves it.

The federal Office for the Protection from Research Risks has approved the agreement, effective January 19, 2000.



## Overview of the Office

The Office of Research and Sponsored Programs (RSP) works with faculty and staff to increase externally funded research and other sponsored programs. RSP staff provides the following services:

- Identification of External Sources of Funding
- Dissemination of Funding Information
- Liaison with Sponsors
- Proposal Development and Preparation
- Budget Preparation
- Institutional Compliance
- Institutional Authorization
- Proposal Transmittal
- Contract Negotiations
- Government Security
- Post-Award Administration of

Externally Funded Programs

- Administration of Internally Funded Programs
- Technology Transfer

*Research News* is published periodically during the academic year, covers grant awards and related topics of interest. Descriptions and deadlines of upcoming programs are listed in RSP's semi-monthly bulletin, *Funding Update*, available at <http://www.wright.edu/rsp/>.

If you would like to be placed on the mailing list or would like further information on funding opportunities, application procedures, or other services provided by the office, please contact us (ext. 2425, [rsp@wright.edu](mailto:rsp@wright.edu)) or visit the office in 201J University Hall.

## STAFF CHANGES IN RSP

We have recently undergone some staff changes in RSP. As of June 1, 2000, Jackie Frederick assumed the post of Assistant Director. This means that RSP now has its full complement of professionals to help faculty seek out sources of funding to support their research, training and

public service activities, and to help them prepare and submit proposals. We generally refer to these functions as "pre-award" and each of the three pre-award professionals is generally responsible for working with faculty in particular colleges and schools. As of June 1, the line-up is as follows:

### Areas of Responsibility

Eugene Hern, Ph.D., Senior Associate Director Ext.2425	School of Medicine (including Matrix departments)
Ellen Reinsch Friese, Associate Director Ext.2423	Science and Math (non-Matrix), Engineering and Computer Sciences
Jackie Frederick, Assistant Director Ext.2664	All other colleges and schools

Also as of June 1, 2000, Marianne Shreck (Ext. 4459) has expanded her role in the position of Grants Management Specialist. You may forward transaction documents for grant and contract related expenditures directly to Marianne's attention for approval. Also, she is now the

person to contact for post-award questions, reporting, etc.

Sara Hill, a temporary employee, will be working with us through the end of June to help with the contract billings and reporting until that position is filled. We would like to welcome Sarah.

## VISITING SCHOLAR or VISITING RESEARCHER?



WSU has recently clarified the titles for appointments of non-faculty foreign visitors on J-1 visas. The *Visiting Researcher* (Employee) classification should be used when the purpose of the visit is to perform a service and receive compensation for services rendered.

The salary and benefits may be charged to a ledger 6 account if the work that is done benefits the project. The *Visiting Scholar* (Non-employee) classification should be used when the purpose of the visit is independent study, and payment is in the form of a stipend to cover living expenses but not to pay for services rendered. The stipend in this case cannot be charged to a

ledger 6 account. These title changes have been initiated to guard against giving a prospective visitor the wrong idea about possible employment. A revised sample invitation letter was sent to each college/school dean by Dr. Joseph F. Thomas, Jr. in April of this year.

WSU continues to run an ad in *Nature* magazine once a year to develop a pool of applicants for Visiting Researcher positions. The résumés that are received in response to the ad are coordinated by Ken Selm in Human Resources who periodically distributes them to the appropriate school or college. If you wish to review any of these applications before making a decision about hiring a Visiting Researcher, please contact your dean or Ken.

## Post Award News

### Leaving the Country?

A reminder to anyone who may be planning foreign travel that will be funded by federal monies--all travel must be done in adherence to the regulations of the Fly America Act. In accordance with this Act, foreign travel expenses must be budgeted based on quotes from U.S. Flag carriers. If you are planning a trip and find that you cannot get to your destina-

tion on a U.S. flag carrier, please call our office to obtain information on what exceptions are allowable and what type of documentation you will need for the justification statement that is required. You may also find information on the Fly America Act on the RSP home page under RSP Policy and Procedure Guidance.



# AWARDS

*The grants and contracts on these pages were awarded from October 1999 through April 2000.*

## ***College of Business and Administration***

Scherer, Robert F.  
Bodey, Michael W.  
*Small Business Development Center*  
Ohio Department of Development  
\$67,904

Scherer, Robert F.  
*I-NET: Internationalizing Networks through Education and Technology*  
U.S. Department of Education  
\$66,278

## ***College of Education and Human Services***

Barnhart, Michael L.  
*Fiscal Agent Role for Entry Year and Teacher Residency Pilots*  
Ohio Department of Education  
\$226,950

Bernhardt, Gregory R.  
Finegan, Colleen A.  
Helms, Ronald G.  
*The Fast-Track: Diversifying the Teaching Force*  
Ohio Department of Education  
\$50,000

Courtney, Donna S.  
*Ohio Career-Technical Education Leadership Institute*  
Ohio Department of Education  
\$80,000

Helms, Ronald G.  
*Professional Growth in the Wright Direction*  
Ohio Department of Education  
\$18,000

Helms, Ronald G.  
Wantz, Richard A.  
*School-to-Work Integration Project: Preservice Teacher Education Planning and Implementation Project - 2000*  
Ohio State University  
\$9,524

Hollins, Etta R.  
*Diversity in Teacher Education Program*  
Institute for Educational Inquiry  
\$7,000

Mathies, Bonnie K.  
Finegan, Colleen A.  
Helms, Ronald G.  
*Learning Communities for Tomorrow's Teachers*  
U.S. Department of Education  
\$61,799

Mathies, Bonnie K.  
*Ohio Board of Regents/Ohio SchoolNet/State University Education Deans' Technology Committee*  
Ohio SchoolNet  
\$31,200

Tomlin, James H.  
Basista, Beth A.  
*Science Mentor Professional Development Institute*  
Ohio Board of Regents - Title II  
\$50,957

Wiley, Gayle D.  
Graham, Glenn T.  
*Market Analysis*  
Highland Local Schools  
\$20,500

## ***College of Engineering and Computer Science***

Amer, Maher S.  
*Advanced Adaptive Optical Coating Process Technology*  
Mound Laser and Photonics Center, Inc.  
\$29,999

Amer, Maher S.  
*Manufacturing Integration Document, Low-Cost Design and Manufacturing*  
Wichita State University  
\$20,000

Amer, Maher S.  
*Investigation of LPD Graphite Films Structure Using Micro-Raman Spectroscopy*  
Mound Laser and Photonics Center, Inc.  
\$1,000

Amer, Maher S.  
*SEM Characterization of Alumina TBC Coatings After Oxidation Treatment*  
Universal Energy Systems, Inc. (UES, Inc.)  
\$1,000

Garber, Fred D.  
*Performance Prediction of ATR Technologies*  
DoD, Air Force, Air Force Research Laboratory  
\$144,500

Garber, Fred D.  
Brandeberry, James E.  
*Intergovernmental Personnel Agreement - Minardi*  
DoD, Air Force, Air Force Research Laboratory  
\$142,666

*The staff of the Office of Research and Sponsored Programs congratulates those receiving external funds, and we encourage those with unfunded proposals to consult with us about resubmission.*

Garber, Fred D.  
 Brandeberry, James E.  
*Intergovernmental Personnel Agreement - Dilsavor*  
 DoD, Air Force, Air Force Research Laboratory  
 \$129,697

Garber, Fred D.  
 Worrell, Steven W.  
*Intergovernmental Personnel Agreement/Specialized Research*  
 DoD, Air Force, Air Force Research Laboratory  
 \$26,418

Garcia, Oscar N.  
 Berra, P. Bruce  
*Priorities in Graduate Education*  
 Ohio Board of Regents  
 \$630,882

Garcia, Oscar N.  
 Goshtasby, A. Ardeshir  
 Gutierrez-Osuna, Ricardo  
*Speech-Driven Facial Animation*  
 NSF, Research Experiences for Undergraduates  
 \$15,000

Goshtasby, A. Ardeshir  
*Nonlinear Brain Image Registration*  
 Kettering Medical Center  
 \$60,000

Grandhi, Ramana V.  
*Multidisciplinary Nonlinear Sensitivity Analysis*  
 DoD, Air Force Office of Scientific Research (AFOSR)  
 \$53,702

Grandhi, Ramana V.  
*Object-Oriented Multidisciplinary Design*  
 DoD, Air Force, Air Force Research Laboratory  
 \$42,000

Gutierrez-Osuna, Ricardo  
*Computational Models for Sensor-Based Machine Olfaction*  
 NSF, Faculty Early Career Development (CAREER)  
 \$63,466

Hangartner, Thomas N.  
*Evaluation of a Novel Treatment for Osteoarthritis of the Knee*  
 Procter & Gamble Company  
 \$103,358

Hangartner, Thomas N.  
*Treatment of Established Osteoporosis Deformities*  
 Covance, Inc.  
 \$19,412

Harvey, Craig M.  
*The Effects of User Perception on Statistical Process Control Charts Selection and Performance*  
 American Society for Quality  
 \$9,783

Hong, Lang  
 Shaw, Amab K.  
*Wavelets-Feature-Aided Tracking (WFAT)*  
 Mission Research Corporation  
 \$79,282

Hong, Lang  
*Distributed Interacting Multipattern Data Association (DIMPDA)*  
 DoD, Air Force, Air Force Research Laboratory  
 \$28,750

Jean, Jack S.  
 Tomko, Karen A.  
*Application Accelerating Reconfigurable Computer*  
 Dayton Area Graduate Studies Institute (DAGSI)  
 \$139,922

Jean, Jack S.  
*Handheld One-Way Voice Communication System*  
 Systran Corporation  
 \$32,306

Koubek, Richard J.  
*Human Factors Engineering in Air Traffic Control*  
 U.S. Department of Transportation, Federal Aviation Administration  
 \$179,629

McBeath, Giorgio  
*Computer Science, Engineering, and Mathematics Scholarships (CSEMS) Program at Wright State University*  
 NSF, Miscellaneous  
 \$214,500

McBeath, Giorgio  
*Ohio Aerospace Institute Fellowship*  
 Ohio Aerospace Institute  
 \$14,083

Misra, Pradeep  
*Scalable Modular Portals-Modeling and Implementation*  
 Redamo Ventures  
 \$21,663

Phillips, Chandler A.  
 Reynolds, David B.  
 Koubek, Richard J.  
*REU Supplement - Bioengineering Design Projects for the Disabled*  
 NSF, Research Experiences for Undergraduates  
 \$10,000

Quek, Francis  
*Extraction and Registration of the Neurovascular Scaffold in Multimodal Images*  
 Whitaker Foundation  
 \$114,444

Quek, Francis  
*Avatar-Based Interfaces for Virtual Communication Environments*  
 Advanced Telecommunications Research Integration and Communications Research Laboratories  
 \$17,488

Rizki, Mateen M.  
*Evolving Pattern Recognition Systems*  
 DoD, Air Force, Air Force Research Laboratory  
 \$87,850

Srinivasan, Raghavan  
*Compression Testing*  
 TIMET  
 \$9,800

Srinivasan, Raghavan  
*Evaluation of the Flow Behavior of Titanium Alloy Ti-17*  
 TIMET  
 \$3,300

Srinivasan, Raghavan  
*Composite Studies*  
MetLab, Division Metallurgical Services,  
Inc.  
\$1,200

Tomko, Karen A.  
*Parallel Solutions of the Navier Stokes  
Equations*  
Ohio Aerospace Institute  
\$49,431

Wolff, J. Mitch  
Grandhi, Ramana V.  
*Precision Design, Modeling and  
Instrumentation in Turbomachinery*  
DoD, Air Force, Air Force Research  
Laboratory  
\$150,000

### ***College of Liberal Arts***

Bullock, Richard H.  
*Early English Composition Assessment  
Program*  
Darke County Educational Service Center  
\$1,000

Curry-Jackson, Anita E.  
*Student Achievement in Research and  
Scholarship (STARS)*  
Miami University  
\$29,000

Dockery, Jane L.  
Dustin, Jack L.  
*A Nine County Health Needs  
Assessment and Planning Process*  
Clark County Combined Health District  
\$280,000

Dockery, Jane L.  
*Area Retention and Expansion Program*  
City of Fairborn, Ohio  
\$1,938

Dockery, Jane L.  
*Fairborn Housing Survey*  
City of Fairborn, Ohio  
\$1,186

Dustin, Jack L.  
*Urban Projects - Urban Universities  
Linkage*  
Ohio Board of Regents  
\$119,808

Dustin, Jack L.  
*Urban Universities Project for State of  
the Regions Research*  
Cleveland State University  
\$7,400

Dustin, Jack L.  
*City of Riverside Development Options  
Study*  
City of Riverside, Ohio  
\$2,400

Gatrell, Jay D.  
*Identifying the Core Competencies and  
Competitiveness of Industrial R & D in  
the State of West Virginia*  
State of West Virginia  
\$10,000

Jenkins, Alyce Earl  
Griffin, Paul R.  
*Tenth Anniversary Celebration --  
Future Shape of Black Religion*  
Ohio Humanities Council  
\$12,000

Nelson, Sharon H.  
*SUMMERBRIDGE DAYTON: The  
Wright Way to Spend Your Summer*  
Iddings Foundation  
\$50,000

Riordan, Robert V.  
*Electronic Reconstruction of Historical  
and Archaeological Sites*  
University of Cincinnati  
\$60,000

Wachtell, Harvey  
*Southwest Regional Office - Ohio  
Historical Society*  
Ohio Historical Society  
\$2,750

Wenning, Mary V.  
Dockery, Jane L.  
*Dayton Public Opinion Survey*  
City of Dayton Office of Management &  
Budget  
\$20,610

### ***College of Nursing and Health***

Fowler, Barbara A.  
*Partnering with Community Health  
Advocates to Increase Breast Cancer  
Screening in Hard-to-Reach Medically,  
Underinsured or Uninsured Urban  
African Women Age 50 to 64*  
Susan G. Komen Breast Cancer  
Foundation  
\$150,000

Martin, Patricia A.  
*Miami Valley Hospital Operating  
Agreement*  
Miami Valley Hospital  
\$225,000

### ***College of Science and Mathematics***

Alvarez, Francisco J.  
*CAREER - Maturation of Synaptic  
Properties During Early Postnatal  
Development*  
NSF, Faculty Early Career Development  
(CAREER)  
\$185,031

Arasu, Krishnasany T.  
*Arrays over Small Phase Alphabet*  
NSF, Grants for Scientific Research  
\$47,373

Arlian, Larry G.  
*Scabies: Biology, Culture, Host  
Specificity and Antigens*  
DHHS, National Institute of Allergy and  
Infectious Diseases (NIAID)  
\$306,042

Arlian, Larry G.  
*House Dust Mite Attraction/Repellency*  
S.C. Johnson Wax  
\$50,000

Arlian, Larry G.  
*Mite Count and Allergen Analyses*  
International Sleep Products Association  
\$30,680

Arlian, Larry G.  
*Dust Mite, Dog and Cat Allergen  
Binding to Cloth*  
S.C. Johnson Wax  
\$26,880

Arlian, Larry G. <i>Lab Testing of Dust Cloths</i> S.C. Johnson Wax \$12,600	Carmichael, Wayne W. <i>Identification and Characterization of Cyanotoxins in Florida Surface Waters</i> State of Florida \$27,500	Gilkey, Robert H. Flach, John M. <i>Cognitive Workload-Complex Synthetic Task Environment</i> DoD, Air Force Office of Scientific Research (AFOSR) \$75,953
Arlian, Larry G. <i>Allergy Tests</i> Procter & Gamble Company \$6,820	Carmichael, Wayne W. <i>Mass Spectrometer Sample Analyses</i> Technical Management Concepts, Inc. \$10,000	Hennessy, Michael B. <i>Influence of Diet and Human Interaction on Several Measures of Well-Being</i> The Iams Company \$11,000
Arlian, Larry G. <i>House Dust Mite Purity Analysis</i> Allergy Laboratories, Inc. \$50	Carmichael, Wayne W. <i>Analysis of Samples for Algal Toxins in Wildlife Tissues from Lake Griffin, Florida</i> State of Florida \$8,400	Hennessy, Michael B. <i>REU Supplement - Maternal Influences on Hormonal Activity and Behavior</i> NSF, Research Experiences for Undergraduates \$5,000
Basista, Beth A. <i>Inquiry-Based Integrated Physics and Mathematics Professional Development Program</i> Ohio Board of Regents - Title II \$42,683	Carmichael, Wayne W. <i>Characterization of Cyanobacteria Secondary Metabolites</i> More Than One Source of Support \$650	Look, David C. <i>Advanced Device Structures</i> DoD, Air Force, Air Force Research Laboratory \$503,534
Bennett, Kevin B. <i>Decision Support for the Army's Digital Tactical Operations Center</i> DoD, U.S. Military Academy (West Point) \$17,000	Cipollini, Don F. <i>Detecting Fitness Costs of Systemic Acquired Resistance in Plants</i> The Eppley Foundation for Research, Inc. \$25,895	Look, David C. <i>A Frontal Attack on Limiting Defects in GaN</i> Virginia Commonwealth University \$100,000
Brown, Huntting W. <i>Environmental Health Sciences Internship Program</i> Veterans Affairs Medical Center \$6,180	Colle, Herbert A <i>Behavioral Research Projects: 4</i> NCR Corporation \$130,350	Look, David C. <i>Hall Effect Measurements</i> More Than One Source of Support \$10,640
Burton, G. Allen Assessment of <i>In Situ</i> Stressors and Sediment Toxicity in the Lower Housatonic River Roy F. Weston, Inc. \$170,795	Colle, Herbert A <i>Graphical Kiosk Interfaces</i> NCR Corporation \$25,000	Look, David C. <i>International Workshop on ZnO</i> DoD, Office of Naval Research \$5,000
Burton, G. Allen <i>Assessment of Storm Water Effects in the Mad River</i> City of Dayton, Miscellaneous \$75,000	Collins, Richard <i>Development of a Computer-Aided Design Tool for Implantable Controlled-Release Drug Delivery Systems (CDD)</i> NSF, International Travel Grant \$1,800	Nagy, Allen L. Thomas, Gina <i>Identification of Pavement Marking Colors</i> Ohio Department of Transportation \$9,997
Carmichael, Wayne W. <i>Characterization of Cyanobacteria Secondary Metabolites</i> More Than One Source of Support \$45,425	Flach, John M. <i>Research on Information Form in Human-Machine Interfaces</i> Japan Atomic Energy Research Institute \$48,395	Ritzi, Jr., Robert W. <i>Ground Water Protection Program</i> Southdown, Inc. \$22,631

Shalin, Valerie L.  
*Distributed Work in Complex, Dynamic Domains*  
National Aeronautics and Space Administration  
\$47,482

Shebilske, Wayne L.  
*DBC Profiling Project*  
Miami Valley Competency Profiling Systems, Inc.  
\$25,664

Shebilske, Wayne L.  
*Visual Orientation and 3D Spatial Memory*  
National Space Biomedical Research Institute  
\$9,800

Svobodny, Thomas P.  
*Mathematical Modeling, Simulation and Control of Physical Processes*  
DoD, Air Force Office of Scientific Research (AFOSR)  
\$28,084

Tett, Robert P.  
*NCR Skills Data Analysis*  
NCR Corporation  
\$10,569

Tieman, Thomas O.  
*Analyses of Environmental Samples*  
State of New York  
\$149,738

Tieman, Thomas O.  
*Dioxins in Herbicide Materials*  
ATANOR  
\$15,400

Tieman, Thomas O.  
*Dioxins in Beef Fat (U.S. Meat Export Federation)*  
U.S. Meat Export Federation  
\$15,300

Tieman, Thomas O.  
*Analyses of Soil for PCDDs/PCDFs*  
Bio Gro  
\$9,075

Tieman, Thomas O.  
*Dioxins in Beef Fat (Analytical Laboratories, Inc.)*  
Analytical Laboratories, Inc.  
\$6,000

Tieman, Thomas O.  
*Analyses of Silica for Chlorobenzenes*  
Cabot Corporation  
\$4,500

Tieman, Thomas O.  
*Analyses of Fish for 2, 3, 7, 8-TCDD*  
State of Alabama  
\$3,300

Tieman, Thomas O.  
*Analyses of Aqueous Effluents for PCDDs/PCDFs*  
City of Memphis, Tennessee  
\$2,500

Tieman, Thomas O.  
*Analyses of Aqueous Effluents for PCBs*  
Oxy Vinyls LP  
\$2,150

Tieman, Thomas O.  
*PCDDs, PCDFs in Sludge*  
Village of Lodi, Ohio  
\$1,000

Tieman, Thomas O.  
*PCDDs/PCDFs in Sludge*  
Wheelabrator Technologies  
\$1,000

Tieman, Thomas O.  
*PCDDs/PCDFs in Sludge*  
New York Organic Fertilizer Company  
\$1,000

Tieman, Thomas O.  
*Analyses of Wastewater for PCDDs/PCDFs*  
Velsicol Chemical Corporation  
\$1,000

Tieman, Thomas O.  
*PCDDs/PCDFs in Sludge*  
Board of Lucas County Commissioners (Ohio)  
\$1,000

Watamaniuk, Scott N. J.  
*Trajectory Networks in Human Motion Processes*  
NSF, Grants for Scientific Research  
\$146,808

Watts, Doyle R.  
*Wavelet Transform Research*  
United Kingdom divisions of Elf and Total  
\$35,248

Wolfe, Paul J.  
Hauser, Ernest C.  
*Identifying Potential Collapse Features Under Highways*  
Ohio Department of Transportation  
\$60,000

### **Lake Campus**

Evans, Dan L.  
*Small Business Development Center*  
Lima Technical College  
\$38,584

Evans, Dan L.  
*Small Business Development Center*  
Lima Technical College  
\$22,850

### **School of Graduate Studies**

Sanville, Thomas J.  
*OhioLINK*  
Ohio Board of Regents  
\$3,473,880

Sanville, Thomas J.  
*OhioLINK Income*  
More Than One Source of Support  
\$2,087,358

Thomas, Jr., Joseph F.  
*Ohio's Research Challenge*  
Ohio Board of Regents  
\$427,972

### **School of Medicine**

Adragna-Lauf, Norma C.  
*Regulation of K-Cl Cotransport by Nitric Oxide*  
American Heart Association - National  
\$71,500

Batra, Prem P.  
*High School Student/K to 12 Teacher Science Enrichment*  
DHHS, National Center for Research Resources (NCRR)  
\$75,977

Berberich, Steven J. <i>MdmX Regulation of the p53 Tumor Suppression Protein</i> DHHS, NIH - Center for Scientific Review \$225,225	Gomez-Cambronero, Julian <i>Signal Transduction in Neutrophil-Mediated Heart Injury</i> DHHS, National Heart, Lung, and Blood Institute (NHLBI) \$97,944	McDougal, James N. <i>Prediction of Irritation Based on Exposure Duration</i> DHHS, Centers for Disease Control \$248,595
Bernstein, Jack M. <i>Effectiveness of a Treatment for Influenza Infection</i> Gilead Sciences, Inc. \$600	Grubbs, Robert D. <i>Role of Phosphorylation Sites in Down-Regulation of Muscarinic Cholinergic Receptor</i> American Federation for Aging Research, Ohio Affiliate \$10,000	Mohler, Stanley R. <i>Aerospace Medicine Residency Program</i> National Aeronautics and Space Administration \$412,000
Cauley, Katherine L. <i>AHEC Support</i> Ohio Board of Regents \$183,702	Guo, Shumei S. <i>Statistical Analysis of Body Composition Risk Factors</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$193,268	Moore, Dennis C. <i>Rehabilitation Research and Training Centers (RRTC) on Drugs and Disability</i> U.S. Department of Education \$577,032
Cauley, Katherine L. <i>Medicaid Outreach</i> Montgomery County Programs \$95,155	Guo, Shumei S. <i>Divergence in Blood Pressure by Race in Adolescent Girls</i> Children's Hospital Research Foundation \$45,566	Moore, Dennis C. <i>Rehabilitation Research and Training Centers (RRTC) on Drugs and Disability</i> U.S. Department of Education \$103,673
Cauley, Katherine L. <i>Lead Hazard Reduction Project</i> Montgomery County Community Development Office \$55,000	Guo, Shumei S. <i>Anti-Resorptive Bone Therapy for Osteopenia in Gaucher Disease</i> Children's Hospital Medical Center \$33,993	Moore, Dennis C. <i>Increasing Substance Abuse Treatment Compliance for Persons with Traumatic Brain Injury</i> Ohio State University \$78,985
Cauley, Katherine L. <i>Grandparent Advocate Project</i> Ohio Department of Aging \$31,282	Guo, Shumei S. <i>A Randomized Calcium Trial in High Risk Pregnancies</i> University of Cincinnati \$28,489	Moore, Dennis C. Corbitt, Elizabeth M. Allen, Jeffery B. <i>Effectiveness of Cognitive Skills Training for Dually-Diagnosed Persons with Mental Illness</i> Ohio Department of Mental Health \$73,350
Cauley, Katherine L. <i>Sinclair Community College Matching Funds</i> Sinclair Community College \$22,893	Halm, Dan R. <i>Active Potassium Transport Across Colonic Epithelium</i> DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) \$183,966	Moore, Dennis C. <i>Accessible ATOD and Violence Prevention for Youth with Disabilities</i> Ohio Department of Education \$65,000
Cauley, Katherine L. <i>Women's Health Month</i> Ohio Department of Health \$11,000	Kapp, Marshall B. <i>Consumer Choice in Home and Community-Based Long Term Care: Legal and Policy Implications for Decisionally Incapacitated Consumers</i> Scripps Gerontology Center \$22,283	Moore, Dennis C. Corbitt, Elizabeth M. Allen, Jeffery B. <i>Effectiveness of Cognitive Skills Training for Dually-Diagnosed Persons with Mental Illness</i> Ohio Department of Mental Health \$59,218
Cool, David R. <i>Regulation of Vasopressin Neurosecretion: A Study of Intracellular Molecular Sorting Signals</i> American Heart Association - National \$65,000		
Fleischman, Darrell E. <i>Photosynthetic Rhizobia Review</i> Elsevier Science \$500		

Moore, Dennis C. <i>The PALS Prevention Approach for Youth with Learning Vulnerabilities</i> Ohio Department of Education \$15,000	Schnader, Jeffrey Yale <i>Biomedical Laboratory Support Services - Schnader</i> Veterans Affairs Medical Center \$37,071	Wooley, Dawn P. <i>Molecular Mechanisms of Retroviral Variation</i> DHHS, National Cancer Institute (NCI) \$123,198
Morris, Mariana <i>Role of Angiotensin AT1a Receptors in the Control of Circadian Blood Pressure Rhythms</i> American Heart Association - National \$55,000	Siegal, Harvey A. <i>HIV Early Intervention Project</i> Project C.U.R.E., Inc. \$40,000	<b>School of Professional Psychology</b>
Olson, James E. <i>Mechanisms of Cellular Taurine Transport in Brain Edema</i> DHHS, National Institute of Neurological Disorders and Stroke (NINDS) \$519,768	Siegal, Harvey A. <i>MCHD CSATHIV Prevention Project</i> Montgomery County Combined Health District \$5,000	Fraser, J. Scott <i>Pre- and Post-Doctoral Internship Residential Services</i> Ohio Department of Rehabilitation & Correction \$63,015
Organisciak, Daniel T. <i>Environmental Light and Retinal Membrane Development</i> DHHS, National Eye Institute (NEI) \$292,585	Siervogel, Roger M. Chumlea, W. Cameron Guo, Shumei S. Towne, Bradford <i>Subcutaneous Fat, Blood Lipids, and Subsequent Outcome</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$1,100,518	Fraser, J. Scott <i>Mental Health and Deafness Residency Traineeship Program</i> Ohio Department of Mental Health \$25,771
Organisciak, Daniel T. <i>Antioxidant Protection and Retinal Degeneration</i> Alcon Laboratories, Inc. \$36,119	Stern, Javier E. <i>Nitric Oxide Effects on Vasopressin Neuronal Excitability: Modulation of Synaptic Activity</i> American Heart Association - National \$71,500	Fraser, J. Scott <i>Rural Practice Initiative Residency Traineeship Program</i> Ohio Department of Mental Health \$6,000
Organisciak, Daniel T. <i>Light and Circadian Effects on Retinal Degeneration in a New Model of Retinitis Pigmentosa</i> Ohio Lions Eye Research Foundation (OLERF) \$5,000	Stills, Harold F. Material Transfer Agreement for <i>Lawsonia intracellularis</i> : Pfizer, Inc. Pfizer, Inc. \$2,000	Fraser, J. Scott <i>Urban Public Health Initiative</i> Ohio Department of Mental Health \$6,000
Pringle, D. Drew <i>Support for Research at the Rehabilitation Institute of Ohio</i> Miami Valley Hospital \$71,830	Towne, Bradford Siervogel, Roger M. <i>Genetic Epidemiology of Childhood Skeletal Maturation</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$428,837	Malloy, Kathleen A. <i>Domestic Violence Program</i> Montgomery County Sheriff's Office \$10,800
Rote, Neal S. King, Jeffrey C. Taylor, Catherine A. <i>Antiphospholipid Antibodies and Disorders of Pregnancy</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$111,900	Wilson, Brenda Anne <i>Pasteurella multocida</i> Toxin: Structure and Activity DHHS, National Institute of Allergy and Infectious Diseases (NIAID) \$100,254	Malloy, Kathleen A. <i>Preventing Abuse in the Home (PATH)</i> Ohio Department of Human Services \$6,766
		Meyer, Cheryl Cauley, Katherine L. <i>Medicaid Expansion: Outreach Evaluation</i> Ohio Department of Human Services \$157,957
		Yung, Betty <i>An Assessment of Cultural Competency Practices in Primary Care Providers to the Poor Settings</i> The Health Foundation of Greater Cincinnati \$76,300

Yung, Betty  
*Early Childhood Conduct Disorder  
Prevention Program*  
Montgomery County Programs  
\$42,000

Weaver, Tracie L.  
*2000 Summer Honors Institute for  
Gifted Students*  
Ohio Department of Education  
\$62,500

### ***Student Affairs***

Able, David  
*Uniform Commutation Allowance*  
DoD, Air Force, AFROTC  
\$25,229

Darr, David R.  
*Supplemental Education Opportunity  
Grant Program*  
U.S. Department of Education  
\$1,423

Vernooy, Jeffrey A.  
*Accessible Arts Consortium*  
U.S. Department of Education  
\$97,622

### ***Universitywide/Miscellaneous***

Hernandez, Paul R.  
*High Performance Connection*  
NSF, Miscellaneous  
\$350,000

Hernandez, Paul R.  
*High Performance Connection*  
Ohio Board of Regents - Action Fund  
\$175,000

Kennedy, Sandra D.  
*Wright State Center for  
Labor-Management Cooperation*  
Ohio Department of Development  
\$118,000

Kennedy, Sandra D.  
*Southwestern Ohio Labor-Management  
Working Network*  
Ohio Department of Development  
\$60,000

Kennedy, Sandra D.  
*Partnering for the Future - Creating  
the Cooperative Environment*  
Delphi Harrison Thermal Systems  
\$29,400

## RESEARCH NEWS

*Office of Research and  
Sponsored Programs  
Wright State University  
201J University Hall  
Dayton, Ohio 45435  
Voice: 937 775-2425  
FAX: 937 775-3781  
<http://www.wright.edu/rsp/>*

# Research Challenge Early Start/Augmentation Winners Announced

The Research Council is pleased to announce the Research Challenge Early Start/Augmentation proposals from the **October 1999** call for applications that were selected for funding. Of 29 applications submitted, 12 projects were funded for a total of

\$240,500. The primary objective of Research Challenge is to furnish seed funding to produce additional sponsored research. Congratulations to the following winners:

<i>Principal Investigator</i>	<i>Department</i>	<i>Title</i>	<i>Amount</i>
Francisco Alvarez	Anatomy	<i>Structure and Function of Spinal Cord Synapses</i>	\$18,100
Maher Amer	Mechanical and Materials Engineering	<i>Functionally Graded Joints for Carbon/Carbon Composites</i>	\$17,269
Steven Berberich	Biochemistry and Molecular Biology	<i>Interplay between MdmX and Mdm2 in Human Breast Cancers</i>	\$26,750
Wayne Carmichael	Biological Sciences	<i>Liquid Chromatography/Mass Spectrometry (LC/MS) Analyses Of Environmental Biotoxins</i>	\$30,000
David Cool	Pharmacology and Toxicology	<i>Molecular Mechanisms of Vasopressin Cytotoxicity in Inherited Diabetes</i>	\$20,000
Guozhu Dong	Computer Science and Engineering	<i>Data Mining of Emerging Patterns in High Dimensions and for Bioinformatics</i>	\$20,000
Jan La Forge	Human Services	<i>Learning Anywhere, Anytime</i>	\$20,000
Lang Hong	Electrical Engineering	<i>An Automotive Collision Prediction System for Highway Safety</i>	\$18,000
Peter Lauf	Physiology and Biophysics	<i>Erythrocyte K-Cl Cotransport: Mass Spectrometry, Molecular Biology and Reconstitution into Liposomes</i>	\$19,710
Javier Stern	Pharmacology and Toxicology	<i>Nitric Oxide Effects on Vasopressin Neuronal Excitability: Modulation of Synaptic Activity</i>	\$17,875
John Turchi	Biochemistry and Molecular Biology	<i>Mechanism of Mammalian Telomere C-Strand Synthesis Vehicles</i>	\$20,550
Scott Watamaniuk	Psychology	<i>Motion Processing Limitations On Human Smooth Pursuit</i>	\$12,246

### **Director**

William K. Sellers, Ph.D. [william.sellers@wright.edu](mailto:william.sellers@wright.edu)

### **Senior Associate Director**

Eugene Hern, Ph.D. [eugene.hern@wright.edu](mailto:eugene.hern@wright.edu)

### **Associate Directors**

Ellen Reinsch Friese [ellen.friese@wright.edu](mailto:ellen.friese@wright.edu)

Glen Jones [glen.jones@wright.edu](mailto:glen.jones@wright.edu)

### **Assistant Director**

Jackie A. Frederick [jackie.frederick@wright.edu](mailto:jackie.frederick@wright.edu)

### **Grants Management Specialist**

Marianne Shreck [marianne.shreck@wright.edu](mailto:marianne.shreck@wright.edu)

### **Sponsored Programs Assistants**

Robyn James [robyn.james@wright.edu](mailto:robyn.james@wright.edu)

Cheryl Nickoson [cheryl.nickoson@wright.edu](mailto:cheryl.nickoson@wright.edu)

Christine Piekkola [christine.piekkola@wright.edu](mailto:christine.piekkola@wright.edu)

Jan Power [rsp@wright.edu](mailto:rsp@wright.edu)

### **Undergraduate Assistants**

Karen Papp

Vidya Rajagopalan

Ruthann Cherry

***RSP Staff***