Spring 4-1-1999

WSU Research News, Spring 1999

Office of Research and Sponsored Programs, Wright State University

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Faculty Networking Pays Dividends

One can hardly refuse an offer of an all-expenses-paid trip to Washington, D.C., particularly when the traveler is a faculty member in search of research funds and the benefactor is the federal government seeking to award funds. Dr. Carl Brun of the WSU Department of Social Work took advantage of just such an opportunity. With the additional support of the WSU Research Challenge Early Start/Augmentation Program, Brun found himself in our nation’s capital, immersed in two days of technical assistance and discussion of the National Institutes of Health (NIH) Career Development Award program in child abuse and neglect.

How does one hear of such exceptional training opportunities? In Brun’s case, he subscribes to the Institute for the Advancement of Social Work Research listserve, and a posted notification alerted him to this unique opening. To apply for the workshop, Brun was required to write a 4 to 5 page letter of interest addressing his commitment to a career in child abuse and neglect research, his career development plan, his proposed research project, and the resources available at his institution (and for potential collaborations).

Brun has been fully indoctrinated into the potential of collaboration. Since arriving at WSU in 1993, he has progressed from small short-term locally funded projects to a $275,000 grant from Ohio Family and Children First. His work with the 38 community-based agencies involved in that project undeniably qualifies him as a “collaboration connoisseur.” With the added advantage of the NIH technical assistance workshop, he can now put that education to use to polish a sound, scientific grant application for the Career Development Award program.

What is the moral of this story? Sponsors clearly want to invest wisely in excellent research and promising researchers, and often make training opportunities available to potential grantwriters. The key is tapping in to that training schedule. Faculty members are encouraged to develop their own networks (by attending professional meetings, by society memberships, or by subscribing to something similar to the aforementioned listserve) to be informed of these openings.

It should be noted that the WSU Research Travel Grant Program is intended to support travel related to the development of new research efforts that have a high likelihood of being funded. Priority is given to requests that seek support to visit sponsors to discuss pending proposals and future funding opportunities. For more information on the Research Travel Grant Program, please access the RSP homepage at: www.wright.edu/rsp/ and link to “Internal Funding Programs.”

New on the Web

WSU’s Year 2000 Compliance Statement may be found at: http://www.cats.wright.edu/catsweb/is/wsuv2k/comp_statement.htm

WSU’s Copyright Information statement may be found at: http://www.wright.edu/cwis/copyright.html

Research and Sponsored Program’s 1997-98 annual report, Research in Review, is now available as a link at: http://www.wright.edu/rsp/ Click on “RSP Publications.”
This is just a reminder to all Procurement Card users that the statement close date on procurement cards is the 27th of each month. Occasionally, purchases are made in one month and cannot be processed or shipped until the next month. The charges for these purchases, and any purchases made after the 27th of each month, will be processed in the following month or months—whenever the order is completed and/or service performed. To avoid problems with charges coming in after a grant or contract has expired, you may wish to use an alternative method of payment (DPO) during the last month of your grant/contract. You may request that the Controller’s Office encumber the expenditures on the DPOs to give you a more accurate reading of your balance and to prevent any problems resulting from charges coming in unexpectedly after the account has been closed.

Also, RSP has instituted a new method to remind Principal Investigators that it may be time to renew their procurement cards. All procurement cards expire on the annual anniversary date of their grant or contract. A reminder notice is automatically sent out to all accounts two months prior to their current end date. If you have procurement cards on these accounts, and if you wish to renew them, instructions are contained in the memo on how to do so. If you do not have any procurement cards on these accounts, you may disregard this memo.

Salary Reallocation Reminder!

All salary reallocations for FY98-99 are due in the Payroll Office by July 9, 1999. If you have a grant or contract with a budget for salaries, please check to make sure all of the salaries have been properly reallocated to the grant or contract for FY98-99. Please direct questions regarding salary reallocations to either the business manager in your college or school, or Research and Sponsored Programs staff, Jackie Frederick (ext. 4459) or Glen Jones (ext. 4461).

Research Incentive Awardees

Research Initiation Program

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Title</th>
<th>College</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Baird</td>
<td>Genetic Analysis of Nictation Behavior in Caenorhabditis elegans</td>
<td>SM</td>
<td>$8,000</td>
</tr>
<tr>
<td>Mark Cordano</td>
<td>Assessing and Managing the Impact of Relevant Toxics</td>
<td>COBA</td>
<td>$5,758</td>
</tr>
<tr>
<td>Irene Frieze</td>
<td>Toxic Release Information on Proenvironmental Behavior</td>
<td>ECS</td>
<td>$8,000</td>
</tr>
<tr>
<td>Ricardo Gutierrez-Osuna</td>
<td>Development of an Electronic Olfactory System for Autonomous Mobile Robots</td>
<td>SM</td>
<td>$6,455</td>
</tr>
<tr>
<td>Ernest Hauser</td>
<td>Seismic Mapping of Obstructions in Front of Tunnel Boring Machines Using the Vibrations Caused by the Machine During Its Operation - A New Seismic Method</td>
<td>SM</td>
<td>$8,000</td>
</tr>
<tr>
<td>Chaocheng Huang</td>
<td>Mathematical and Numerical Analysis for Fast Probabilistic Integration</td>
<td>SM</td>
<td>$8,000</td>
</tr>
<tr>
<td>Joseph Slater</td>
<td>Concepts for Semi-active Dampers</td>
<td>ECS</td>
<td>$7,708</td>
</tr>
<tr>
<td>Peter Lauf</td>
<td>Characterization of a K-C1 Co-transport Related Membrane Protein</td>
<td>SM</td>
<td>$8,000</td>
</tr>
<tr>
<td>Norma Adragna</td>
<td>Cadmium-induced Toxicity to the Kidneys of Least Shrews</td>
<td>SM</td>
<td>$6,900</td>
</tr>
<tr>
<td>David Goldstein</td>
<td>Differences in Reduction of Medical Service Utilization After</td>
<td>SOPP</td>
<td>$8,000</td>
</tr>
<tr>
<td>Jyn-Hann Chang</td>
<td>Brief Psychotherapy Intervention Between Average Users of Medical Services and High Users of Medical Services</td>
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<td></td>
</tr>
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</table>

Professional Development Program

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Title</th>
<th>College</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelley Jagow</td>
<td>Dr. Eugene Rousseau’s Saxophone Master Class and the Cincinnati Conservatory of Music</td>
<td>LA</td>
<td>$1,535</td>
</tr>
<tr>
<td>Matthew Benjamin</td>
<td>Design Research - Opera Theatre of Lucca; Lucca, Italy</td>
<td>LA</td>
<td>$2,500</td>
</tr>
</tbody>
</table>
AWARDS

The grants and contracts on these pages were awarded from January 1999 through April 1999.

**College of Business and Administration**

Premus, Robert
Sanders, Nada R.
*Management Consultant Services*
Modern Technologies Corporation
$15,000

Scherer, Robert F.
Meyer, Jeffrey F.
Anderson, Amy E.
*National Association of Small Business International Trade Education (NASBITE)*
National Association of Small Business International Trade Educators
$23,846

**College of Engineering and Computer Science**

Amer, Maher S.
*Investigation of Graphitic Structure of Carbon Coating on Alumina Fibers*
SpecTran Specialty Optics Company
$1,300

Chen, Chun-Lung Philip
*Design Using Neural Networks*
Technical Management Concepts, Inc.
$12,000

Garber, Fred D.
Worrell, Steven W.
*Intergovernmental Personnel Agreement/Specialized Research*
DoD, Air Force, Air Force Research Laboratory
$114,831

Garber, Fred D.
*Performance Prediction of ATR Technologies*
DoD, Air Force, Air Force Research Laboratory
$50,000

Garcia, Oscar N.
Berra, P. Bruce
*Priorities in Graduate Education*
Ohio Board of Regents
$125,000

Goshtasby, A. Ardeshir
*Registration of Deformed Images using Elastic Surfaces*
Kettering Medical Center
$102,154

Hangartner, Thomas N.
*Treatment of Established Osteoporosis Deformities*
Covance, Inc.
$136,918

Hong, Lang
*Multiplatform Cooperative Fire Control*
DoD, Air Force, Air Force Research Laboratory
$50,000

Lieh, Junghsen
*Phototube Vibration Measurement System*
Ohio State University - Miscellaneous
$80,000

Narayanan, Sundaram
*Enhancing UMAST Software Architecture*
Logicon Technical Services, Inc.
$29,000

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

**College of Education and Human Services**

Bernhardt, Gregory R.
*Regents' Scholar Program*
Ohio Board of Regents
$50,000

Bernhardt, Gregory R.
Fortson, Stephen B.
*Diversified Teaching Force*
Ohio Department of Education
$35,866

Hollins, Etta R.
*Diversity in Teacher Education Program*
Institute for Educational Inquiry
$7,309

Wiley, Gayle D.
Graham, Glenn T.
*Market Analysis*
Talawanda City Schools
$4,200

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.
Shaw, Arnab K.  
Mc Cormick, William S.  
*Automatic Target Recognition Systems*
Mission Research Corporation  
$60,000

Siford, Raymond E.  
*CMOS Integrated Circuit Design*
University of Cincinnati  
$47,000

Sudkamp, Thomas A.  
*Fuzzy Logic Research*
OAO Corporation  
$20,000

Thirunarayan, Krishnaprasad  
*Computer-Assisted Document Interpretation Tools*
Renaissance Engineering, Inc.  
$21,120

Weiss, Isaac  
*In-situ Synthesis of Discontinuously Reinforced Titanium Alloy Composites Via Blended Elemental Powder Metallurgy Processing*
Research & Development Laboratories  
$25,000

Wolff, J. Mitch  
Grandhi, Ramana V.  
*Precision Design, Modeling and Instrumentation in Turbomachinery*
DoD, Air Force, Air Force Research Laboratory  
$75,100

Wolff, J. Mitch  
*Interferometric Fiber-Optic Pressure Sensor Dynamic Response Analysis*
F&S, Inc.  
$360

**College of Liberal Arts**

Curry-Jackson, Anita E.  
*Student Achievement in Research and Scholarship (STARS)*
Miami University  
$8,000

Dockery, Jane L.  
*City of Piqua Strategic Planning Process*
City of Piqua  
$48,875

**College of Nursing and Health**

Dalton, Lisa Marie  
Grooms, Sherry S.  
*The SPARKS Project: Supporting Parenting Adolescents - Raising Kids Safely*
Greene County Family and Children First  
$6,763

**College of Science and Mathematics**

Arasu, Krishnasany T.  
*Arrays over Small Phase Alphabet*
NSF, Grants for Scientific Research  
$45,590

Arlian, Larry G.  
*Scabies: Biology, Culture, Host Specificity & Antibodies*
DHHS, National Institute of Allergy and Infectious Diseases (NIAID)  
$297,128

Arlian, Larry G.  
*Removal of Mite, Cat, and Dog Allergens from Fabric Samples*
Procter & Gamble Company  
$43,839

Arlian, Larry G.  
*Miticidal Activity of Selected Products*
Center Pharmaceutical  
$8,296

Arlian, Larry G.  
*Acaricidal Analysis of Dog Food Formulations*
Procter & Gamble Company  
$1,116

Brown, Huntington W.  
Burton, G. Allen  
*Water Connections*
Think TV Network (Greater Dayton Public Television)  
$26,492

Burton, G. Allen  
*Enhancement of Environmental Communication in the Lower Great Miami Basin: A Pilot Demonstration*
Miami Valley Regional Planning Commission (MVRPC)  
$103,637
Carmichael, Wayne W.
Characterization of Cyanobacteria Secondary Metabolites
More Than One Source of Support
$68,925

Carmichael, Wayne W.
Toxicity, Ecological Impact, Monitoring, Causes and Public Awareness of Microcystis Blooms in Lake Erie
Ohio State University
$22,000

Flach, John M.
Research on Information Form in Human-Machine Interfaces
Japan Atomic Energy Research Institute
$46,886

Grasman, Keith A.
Biomarkers for Organochlorine-Associated Immunosuppression in Birds: Field Investigations in the Great Lakes and Laboratory Studies
U.S. Environmental Protection Agency
$98,724

Grasman, Keith A.
Endocrine Biomarkers for Monitoring Contaminant-Associated Health Effects in Fish-Eating Birds of Lake Erie
Ohio Department of Natural Resources
$17,004

Hennessy, Michael B.
Supplement - Research in Undergraduate Institutions
NSF, Research in Undergraduate Institutions
$5,050

Ketcha, Daniel M.
Chemical Product Analysis
Aldrich Chemical Company
$1,500

Krane, Dan E.
Forensic DNA Profiling
More Than One Source of Support
$1,400

Look, David C.
Advanced Device Structures
DoD, Air Force, Air Force Research Laboratory
$119,000

Look, David C.
p-type ZnO Structured Materials Industries, Inc.
$15,000

Ritzi, Jr., Robert W.
Miami Conservancy District Internship Agreement
Miami Conservancy District
$6,300

Shebilske, Wayne L.
Employing Wright State University Graduate Students on the DBC Profiling Project
Dayton Business Committee
$11,212

Tieman, Thomas O.
Analyses of Dioxins/Furans and PCBs by High Resolution Mass Spectrometry
State of New York
$262,200

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

Turnbull, Kenneth
The Sydnone Ring as a Director of Lithiation: Preparation and Reactions of ortho-Substituted and Fused Ring Arylsdnones
Petroleum Research Fund - American Chemical Society
$30,000

Wheatly, Michele G.
Physiological and Molecular Characterization of Ca Pump and Exchange: An Integrated Approach Modeled on the Freshwater Crayfish Molting Cycle
NSF, Research in Undergraduate Institutions
$82,000

Wheatly, Michele G.
Physiological and Molecular Characterization of the Ca Pump and Exchanger
NSF, Research Experiences for Undergraduates
$12,500

Lake Campus

Evans, Dan L.
Small Business Development Center
Lima Technical College
$43,823

Evans, Dan L.
Small Business Development Center
Lima Technical College
$17,611

$3,200

$1,102

Mt. Orab Water Works
$1,000

Tieman, Thomas O.
Characterization of PCDDs/PCDFs in Sludge - Mt. Orab Water Works

Dow Chemical

PCDDs ! PCDFs in Industrial Wastestreams
Parsons Engineering Science, Inc.
$51,200

PCDDs/PCDFs in Industrial Wastestreams

Parsons Engineering Science, Inc.
$51,200

NSF, Research Experiences for Undergraduates

$12,500

ATANOR
$40,422

ATANOR

$40,422

Analyses of Fish for 2, 3, 7, 8 - TCDD
State of Alabama
$3,300
School of Graduate Studies

Sanville, Thomas J.
OhioLINK Income
More Than One Source of Support
$1,572,736

Sanville, Thomas J.
OhioLINK Income
Ohio Board of Regents
$618,702

Thomas, Jr., Joseph F.
Ohio’s Research Challenge
Ohio Board of Regents
$159,941

School of Medicine

Adityanjee
Laboratory Support Services - Psychiatry
Veterans Affairs Medical Center
$50,000

Alvarez, Francisco J.
Synaptic Mechanisms of Spinal Cord Sensory Fibers
DHHS, National Institute of Neurological Disorders and Stroke (NINDS)
$109,223

Alvarez-Leefmans, F. Javier
Putnam, Robert W.
Cell volume Regulation and Maintenance in Neurons
DHHS, National Institute of Neurological Disorders and Stroke (NINDS)
$229,155

Batra, Prem P.
High School Student/K to 12 Teacher Science Enrichment
DHHS, National Center for Research Resources (NCRR)
$10,000

Berberich, Steven J.
Mdm-2 Oncoprotein as a Cell Regulator of p53
DHHS, National Cancer Institute (NCI)
$109,356

Bernstein, Jack M.
Effectiveness of Treatments for Pneumonia
Upjohn Company
$6,500

Bigley, Nancy J.
Novel Delivery System for a Herpesvirus DNA Vaccine
DHHS, National Institute of Dental Research (NIDR)
$36,000

Cauley, Katherine L.
A Healthier Child is a Better Learner
U.S. Department of Education
$318,806

Cauley, Katherine L.
Montgomery County Child Health Outreach Consortium
Montgomery County Combined Health District
$96,870

Cauley, Katherine L.
Women’s Health Month
Ohio Department of Health
$10,000

Chumlea, W. Cameron
Guo, Shumei S.
Siervogel, Roger M.
Multi-frequency Impedance and Body Composition
DHHS, National Heart, Lung, and Blood Institute (NHLBI)
$201,342

Chumlea, W. Cameron
Measurement of Body Composition using New Impedancemetry
TEFAL
$4,045

Cool, David R.
Regulation of Vasopressin Neurosecretion: A Study of Intracellular Molecular Sorting Signals
American Heart Association - National
$65,000

Gomez-Cambronero, Julian
Signal Transduction in Neutrophil-Mediated Heart Injury
DHHS, National Heart, Lung, and Blood Institute (NHLBI)
$98,270

Halm, Dan R.
Active Potassium Transport Across Colonic Epithelium
DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
$178,616

Kay, Jerald
ODMH Forensic Psychiatry Fellowship Program
Ohio Department of Mental Health
$87,058

Langley, Albert E.
AHEC Support
Ohio Board of Regents
$58,570

Mohler, Stanley R.
Aerospace Medicine Residency Program
National Aeronautics and Space Administration
$746,020

Moore, Dennis C.
Rehabilitation Research and Training Centers (RRTC) on Drugs and Disability
U.S. Department of Education
$499,261

Moore, Dennis C.
Rehabilitation Research and Training Centers (RRTC) on Drugs and Disability
U.S. Department of Education
$102,673

Moore, Dennis C.
Purchase of Manuals
DHHS, Substance Abuse and Mental Health Services Administration (SAMHSA)
$12,321
Moore, Dennis C.  
*Purchase of Manuals*  
DHHS, Substance Abuse and Mental Health Services Administration  
(SAMHSA)  
$5,000

Moore, Dennis C.  
*RRTC on Drugs and Disabilities Training*  
State of South Dakota  
$1,975

Morris, Mariana  
*Role of Angiotensin AT1a Receptors in the Control of Circadian Blood Pressure Rhythms*  
American Heart Association - National  
$55,000

Organisciak, Daniel T.  
*Environmental Light and Retinal Membrane Development*  
DHHS, NIH - Center for Scientific $263,990

Organisciak, Daniel T.  
*Fellowship Support*  
Ohio Lions Eye Research Foundation (OLERF)  
$1,500

Pringle, D. Drew  
*Support for Research at the Rehabilitation Institute of Ohio*  
Miami Valley Hospital  
$37,038

Rote, Neal S.  
King, Jeffrey C.  
Wilson, Brenda Anne  
Taylor, Catherine A.  
*Antiphospholipid Antibodies and Disorders of Pregnancy*  
DHHS, National Institute of Child Health and Human Development (NICHD)  
$217,354

Siegal, Harvey A.  
*Community AOD Case Management Project - F02: Community Corrections*  
Ohio Department of Rehabilitation & Correction  
$299,000

Siegal, Harvey A.  
*Institutional AOD Case Management Project - F01: Residential Corrections*  
Ohio Department of Rehabilitation & Correction  
$293,013

Towne, Bradford  
Siervogel, Roger M.  
*Genetic Epidemiology of Childhood Skeletal Maturation*  
DHHS, NIH - Center for Scientific  
$455,584

Wooley, Dawn P.  
*Molecular Mechanisms of Retroviral Variation*  
DHHS, National Cancer Institute (NCI)  
$116,742

**School of Professional Psychology**

Allen, Jeffery B.  
*Intergovernmental Research Personnel Agreement - Allen*  
Veterans Affairs Medical Center  
$3,200

Fraser, J. Scott  
*Pre-Doctoral Training*  
Miami Valley Hospital  
$8,000

Malloy, Kathleen A.  
*Domestic Violence Program*  
Montgomery County Sheriff's Office  
$5,400

Yung, Betty  
*Violence Prevention Program Training*  
Butler County Mental Health Board  
$36,961

Yung, Betty  
*Violence Prevention Training*  
State of South Carolina  
$14,511

**Student Affairs**

Able, David  
*Uniform Commutation Allowance*  
DoD, Air Force, AFROTC  
$19,936

Darr, David R.  
*College Work-Study Program*  
U.S. Department of Education  
$946,381

Darr, David R.  
*Supplemental Education Opportunity Grant Program*  
U.S. Department of Education  
$302,093

Kennedy, Sandra D.  
*Department of Public Utilities TRUST FORCE and Trust Action Teams Training and Facilitation*  
City of Hamilton, Ohio  
$8,455

Kennedy, Sandra D.  
*Employee Climate Assessment*  
Morris Bean & Company  
$2,588

Nisley-Paiotti, Zella L.  
*Aviation Camp Minority Outreach*  
Ohio Aerospace Institute  
$1,000

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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.
As we close the books on this last issue of Research News for the 1998-99 academic year, it is time again to begin scheduling University-wide training opportunities for the fall quarter. The staff of RSP looks forward to offering the following workshops to new (and returning) faculty and staff:

**Faculty Orientation Workshop**

Designed as an overview of the services offered by RSP, new faculty members are particularly encouraged to attend, but anyone interested in learning more about the office is welcome.

Date: Tuesday, October 12  
Time: 9:30 a.m. to 11:00 a.m.  
Place: Student Union E156A&B

**Post-Award Training**

Geared to faculty and staff responsible for expenditures processed on 66-ledger (restricted) accounts, the session offers guidance in the area of post-award administration.

Date/Time/Place to be announced.

**Funding Opportunities Workshop**

Matching research interests with like-minded sponsors is one of the first steps on the road to funding success, and RSP subscribes to several electronic tools to smooth the trip. Learn to use the Community of Science, Sponsored Programs Information Network (SPIN), and The Grant Advisor Plus in this one-hour hands-on session.

Date: Friday, October 15  
Time: 12 noon to 1:00 p.m.  
Place: 032 Library Annex (Mac Lab)

Further details and registration information will be published in the Fall 1999 issue of Research News. Best wishes from the staff of RSP for a restful and relaxing summer!