Fall 8-1-1995

WSU Research News, Fall 1995

Office of Research and Sponsored Programs, Wright State University

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Through the hard work and dedication of Wright State's faculty and staff, external funding exceeded $25 million in fiscal year 1995 for the first time. The exact total received was $25,207,174 — an increase of 9% from the previous year's awards. Research and development activities exceeded $16 million.

Proposal activity was also strong. In FY 1995 the Office of Research and Sponsored Programs processed and submitted 631 proposals for the university community. External sponsors funded 439 awards.

The Federal Government continues to award a major portion of Wright State University's externally funded programs. Of the total dollars awarded for FY 95, federal agencies awarded approximately $15 million or 60%. These funds came primarily from the National Institutes of Health, Department of Education, Environmental Protection Agency, Department of Defense, NASA, and the National Science Foundation.

Industrial firms provided in excess of 3.4 million dollars or almost 14% of all FY 95 funding.

As a metropolitan university, WSU has established both a leadership role in the region and a strong public service component in its sponsored programs activities. This year, twenty-seven public service projects totalling $1,464,295 were awarded to faculty and staff.

The staff of Research and Sponsored Programs congratulates Wright State faculty and staff who have received external funds and recognizes the efforts of all proposal writers at Wright State. (For a list of current awards, see pages 4-8.)

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Personal Comments

With Phil Spina's departure to the Children's Memorial Institute in Chicago this past July, it seemed that the best way that I could support the Office would be to step in as Acting Director. In filling this role for the past three months, I have had reinforced, first hand, the tremendous dedication and professionalism of the entire RSP staff. I thank and commend them for a continuing job-well-done.

This may, however, be my only opportunity to write to you under the above title. Our search for a new director is on schedule, with interviews ongoing, and we look forward to identifying new leadership. My thanks to Dr. Rod Hammond and the Search Committee for attracting a pool of excellent candidates and moving the search forward and to the many faculty and staff who have participated in the interviews to date. I believe that this entire process can strengthen the Office and our commitment to serve the University community.

On another matter, I am pleased to announce that Ms. Ellen Friese has accepted the position of Assistant Director of RSP effective October 23. Ellen comes to Wright State from the Hipple Cancer Research Center with Director of RSP effective October 23. Ellen is a resident of University Health Sciences Center and the San Diego State University Foundation. Ellen is a resident of this entire process can strengthen and staff who have participated in the interviews to date. I believe that this entire process can strengthen the Office and our commitment to serve the University community.

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A final personnel note: Ms. Joyce Boinott, Sponsored Program Assistant responsible for the Institutional Review Board for Human Subjects, retired August 31. The position has been filled through an internal promotion of Ms. Robyn Simmons. I hope that those of you who work with human subjects will join me in congratulating Robyn and welcoming her to her new assignment. We hope to announce a replacement for Robyn as Senior Secretary for Compliance Activities very shortly.

Conflict of Interest

As the Office moves from proposal to protocol to award and meets the heavy workload of proposal deadlines, some major, significant events sometimes overlay our day-to-day activities. Such an event is the October 1 implementation of the federally-mandated Conflict of Interest (CoI) policy. You all should have received a memo and sample CoI forms recently through campus mail which I hope you found informative. Here, I would like to provide some background.

We all expect to share a high standard of professional ethics which includes a commitment to avoid real or perceived conflicts of interest. This is obviously a very broad area, and one where there can be reasonable disagreements. One question is - at what point should the university step in to monitor and enforce a common standard?

For the present time, the federal government, through two of its agencies, the Public Health Service (PHS) and the National Science Foundation (NSF), has provided a minimum requirement. These agencies sponsor research and other programs that may lead to commercial applications. There is a concern, therefore, that these programs be conducted according to the highest professional standards for the greatest common good, not for the personal benefit of the investigators. Thus, these agencies have adopted a set of common regulations that require universities to assure that the investigators conducting a project do not have a financial interest that might lead to bias in the design, conduct, and reporting of the project. If the investigators do have such a conflicting financial interest, the university must disclose the existence of such an interest to the funding agency and must assure that a plan to manage, reduce, or eliminate the conflict has been adopted. The details of the plan, however, need not be reported to the agency unless requested at a later date.

The new federal regulations apply only to the PHS (which includes NIH) and the NSF. However, based upon the intent and spirit of the regulations, the Wright State University policy is written to include all federal sponsors. Thus, all WSU investigators applying for federal funds must meet the disclosure guidelines. For investigators applying for non-federal funds, the financial disclosure is optional.

The concern of the federal regulations and WSU policy is that personal financial interests not bias the conduct of a federally sponsored project. However, a personal financial interest may relate to some research topic areas pursued by an investigator but not others. Thus, the WSU policy is to be implemented on a project-by-project basis. Investigators will be asked to complete a Conflict of Interest Statement form for each proposal submitted. The form asks the investigator to disclose any significant financial interests which may reasonably be expected to bias the project proposed. If a financial interest is disclosed, the university designated official (RSP Director) will initially determine whether there is a conflict of interest.

Allow me to propose an example based upon my own discipline, materials science. Professor M is an active researcher. M also has some personal investments: (1) a 25% interest in a small company, M & Friends, that applies protective coatings to automotive components using a proprietary process; (2) stock in General Motors worth $20,000; and (3) an interest in an apartment building worth $50,000. M authors a proposal to the NSF to investigate the

Continued next page
Institutional Biosafety Committee

Research and Sponsored Programs (RSP) has recently assumed responsibility for administering an expanded research compliance committee. To comply with recent federal guidelines, Wright State University has recently reorganized its Institutional Biosafety Committee (IBC). The IBC is now constituted to provide oversight for and guidance in conducting research involving recombinant DNA (rDNA) activities, infectious microbiologies (e.g., viral and microbial), and/or biological toxins. As with the committees having oversight responsibility for the use of humans or animals in research (i.e., the Institutional Review Board and the Laboratory Animal Care and Use Committee, respectively), RSP serves as the administrative contact for this expanded committee. In this role, we can provide committee information, relevant documentation, petitions to request committee review, and other relevant information and guidelines.

If your research activities involve any of the biosafety concerns mentioned above, you may contact either myself (Eugene Hern) or Robyn Simmons (ext. 2425) for information concerning review requirements by the IBC or to obtain the necessary forms and guidelines to initiate and facilitate the review. If you are planning a proposal that will include any of these activities or that may contain other potentially hazardous biosafety concerns, I would encourage you to contact RSP early in the planning process so that potential compliance issues do not result in delayed internal authorization at deadline time.

You may also contact Jarrell Hagan, Environmental Health and Safety, at x4131 for additional information concerning your biosafety concerns and for help in determining appropriate review for your research activities.

Eugene Hern, Ph.D., Associate Director

Post Award

Each year Wright State University continues to obtain a high level of external funding for research and other sponsored programs. Many of these projects are continuations of existing programs and many are new projects. It is important for all investigators to be knowledgeable of their sponsor's guidelines.

Some sponsors have very specific guidelines for spending funds. For example, many do not allow equipment purchases without prior approval or they do not permit rebudgeting funds from one category to another. Some sponsors require the University to provide matching funds or cost sharing.

After your award is received, RSP staff review its terms and conditions. When possible, we will note any unusual or notable requirements on the bottom of the project administrative summary.

We will be happy to clarify these requirements at any point during your project. Please feel free to meet with Lori Gabriel (ext. 2425) if you have questions concerning any project administration issue.

Lori Gabriel, Assistant Director

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 provide 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
- Post Award Administration of

Externally Funded Programs

- Administration of Internally Funded Programs
- Technology Transfer
- Government Security

Research News and Funding Update are publications of RSP. Research News, 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 monthly bulletin, Funding Update.

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@desire.wright.edu) or visit the office in 122 Allyn Hall.

Lori Gabriel, Assistant Director

Conflict, Continued

mechanism of adherence of coating compounds to a component surface. Faced with the disclosure form, M discloses (1) and (2), but not (3). M reasons that there is no reasonable connection of (3) to this (or any) research, and this is an appropriate decision. The RSP director reviews the disclosures. The Director determines immediately that the stock ownership (2) is not significantly connected to the research and will not lead to a conflict of interest. Interest (3), however, is referred to the Associate Provost for Research for further study and resolution of any conflict. Six months later, M submits another proposal, this time to the Air Force, to study ways to fabricate an airframe part from a new composite material. M again discloses (1) and (2), but not (3). This time the RSP Director immediately determines that neither (1) nor (2) pose a conflict.

There are decisions here for both the investigator and the review officials. For the investigator, it is best to err on the side of disclosure. When a disclosed financial interest is determined not to be a conflict, the university is obligated to support and defend the investigator if the relationship between a financial interest and a sponsored project is ever challenged.

Joseph F. Thomas, Jr., Acting Director

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## Administration

Darr, David  
Scholarships for Disadvantaged Students (Baccalaureate)  
DHHS: Bureau of Health Professions  
$2,626

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## College of Business and Administration

Adams, Marsha and Davy, Jeanette  
Small Business Development Partnership  
Upper Valley Joint Vocational School  
$4,500

Adams, Marsha  
Small Business Institute  
Small Business Administration  
$2,000

Adams, Marsha and Davy, Jeanette  
Small Business Development Center  
Ohio Department of Development  
$31,332

Scherer, Robert  
I-TRADE  
Xenia Economic Growth Corporation  
Local Government/Industry  
$3,500

Scherer, Robert  
Project I-TRADE  
Ohio Department of Development  
$20,020

Scherer, Robert and Ainina, M. Fall  
I-TRADE  
U.S. Department of Education  
$89,000

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## College of Engineering and Computer Science

Chen, C.L. Philip  
Knowledge-Based Elicitation System  
Technical Management Concepts, Inc.  
$17,000

Chung, Soon  
Database System for Strategic Marketing  
AT&T Global Information Solutions  
$25,000

Faghri, Amir  
Micro Heat Pipe Technology in Electronic Cooling  
USAF: Wright Laboratory  
$40,000

Garber, Fred  
Feature-Based Automatic Target Recognition  
Ohio Aerospace Institute  
$25,000

Garcia, Oscar  
Decision Aided Controls and Displays  
Veda Incorporated  
$37,155

Grandhi, Ramana  
Reliability Based Structural Optimization  
NASA  
$42,000

Grandhi, Ramana  
Object-Oriented Multidisciplinary Design  
USAF: Wright Laboratory  
$126,997

Hannen, Russell  
Electric Race Car Power Train Concepts  
Ohio Aerospace Institute  
$5,000

Hollenbaugh, Sheila  
Technical Support for the MVRI/ISAC Prototyping Facility  
Miami Valley Research Institute (ISAC)  
$1,002

Hong, Lang  
Technical Development Analysis and Assessment  
Science Applications International Corp.  
$3,000

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## College of Education and Human Services

Barnhart, Dixie  
Mini-Grant for Planning  
Institute for Educational Inquiry  
$3,000

Courtney, Donna  
Vocational Ed Personnel Development Regional Center  
Ohio Department of Education  
$5,967

Hong, Lang  
Information-Based Multiresolutional Target Tracking (MRTT)  
USAF: Wright Laboratory  
$100,000

Jean, Jack and Xue, Kefu  
Pattern Theory-Based Machine Learning  
AbTech Corporation  
$15,700

Kazimierczuk, Marian  
SiC Power Semiconductor Devices  
UES, Inc.  
$11,980

Liew, Junghsen and Slater, Joseph  
Advanced 3D Camera Systems  
Ohio Infrastructure Institute  
$80,920

Narayanan, Sundaram  
Object-Oriented Computational Modeling  
Ohio Aerospace Institute  
$2,500

Phillips, Chandler  
Bioengineering Design Projects for the Disabled  
National Science Foundation - Bioengineering  
$23,512

Rowley, Blair and Birt, Timothy  
Rehabilitation Engineering Design  
Montgomery County Board of Mental Retardation and Developmental Disabilities  
$600

Sudkamp, Thomas  
Fuzzy Logic Applications Workshop  
Miami Valley Research Institute (ISAC)  
$3,379

Sudkamp, Thomas  
Intelligent Real-Time Traffic Control Prototype  
Miami Valley Research Institute (ISAC)  
$48,495

Thomas, Scott  
Flexible Heat Pipe Testing  
UES, Inc.  
$27,478
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<td>Hall Effect Measurements Picotronix, Inc.</td>
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<td>High Technologies Industry Survey Local Government/Industry</td>
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<td>Women: Rites of Passage Ohio Humanities Council</td>
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<td>Wright Brothers Ohio Humanities Council</td>
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<td>Arnold, William</td>
<td>Evaluation of Thrombogenicity of Modified Polyurethanes BSI Corporation</td>
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<td>Mdm2 Oncoprotein as Cell Regulator of p53 NIH - National Cancer Institute</td>
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<td>Treatment of Skin and Skin-Structure Infections CPR, Inc. Rhone-Poulenc Rorer</td>
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<td>Spleen Cell Cytokine Transcripts American Heart Association - National</td>
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<td>Mechanisms of CO2/H+ Sensitivity in Brainstem Neurons NIH - National Heart, Lung and Blood Institute</td>
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<td>Support for Research at the Rehabilitation Institute of Ohio Miami Valley Hospital</td>
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<td>AHA Undergraduate Research Fellowship American Heart Association - Ohio Affiliate</td>
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<td>Hangartner, Thomas and McGlynn, Thomas Treatment of Established Osteoporosis Deformities G.H. Besselaar Associates</td>
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<td>Design and Chemically Synthesize Potential Drug Molecules American Heart Association - National</td>
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<td>ODMH Category II - Interagency Professorship Ohio Department of Mental Health</td>
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<td>Lauf, Peter and Adragna, Norma Kinetics and Regulation of Erythrocyte K-CI Cotransport NIH - National Institute of Diabetes and Digestive and Kidney Diseases</td>
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<td>WSU/KMC Cooperative Agreement for Molecular Genetics Kettering Medical Center</td>
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<td>Mammography Referral in Primary Care Massachusetts Institute of Behavioral Medicine, Inc.</td>
<td>$172,473</td>
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<td>Intergovernmental Personnel Act Dayton Area Veterans Affairs Medical Center</td>
<td>$7,800</td>
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Mandal, Anil and Mehling, Brian
Heparin-Induced Changes in Angiotensin-Converting Enzyme
Alpha Omega Alpha/Honor Medical Society
$3,500

Mehrotra, Bhoomi
Intergovernmental Personnel Agreement - McMannama
Dayton Area Veterans Affairs Medical Center
$34,688

Mohler, Stanley
Intergovernmental Personnel Agreement - Doarn
National Aeronautics and Space Administration
$246,058

Mohler, Stanley
Aerospace Medicine Residency Program
National Aeronautics and Space Administration
$585,000

Moore, Dennis
RRTC for Substance Abuse and Disability
U.S. Department of Education - National Institute of Disability Research Resources
$134,895

Moore, Dennis
Direct Services Through Consultation: Regional Model
Substance Abuse Prevention/SAMHSA
$421,116

Organisciak, Daniel
Protection Against Light Induced Retinal Cell Damage and Death
Alcon Laboratories
$15,000

Organisciak, Daniel
Environmental Light and Retinal Membrane Development
NIH - National Eye Institute
$201,823

Reo, Nicholas
Hepatic Toxicity of Perfluorinated Carboxylic Acids
Air Force Office of Scientific Research
$206,741

White, Richard
Estrogen Effects on the Coronary Circulation
American Heart Association - Ohio Affiliate
$2,100

--- School of Medicine, College of Nursing and Health, School of Professional Psychology ---

Maurana, Cheryl; Swart, Jane and VandeCreek, Leon
Sinclair Community College Action Fund Cost-Share
Sinclair Community College
$20,000

Maurana, Cheryl; Swart, Jane and VandeCreek, Leon
Reach Out: Physician’s Initiative Reach Out of Montgomery County
$22,140

--- School of Professional Psychology ---

Dobbins, James
Workshop Series on Mental Health and Deafness
Martha Holden Jennings Foundation
$16,850

Hammond, W. Rodney
Inservice Training Program
Montgomery County ADAMHS Board
$25,000

Talen, Mary
Wellness Family Check-Up
Maimi Valley Child Development Centers, Inc.
$24,090

VandeCreek, Leon
Traineeship
Commonwealth Edison
$59,212

--- College of Science and Mathematics ---

Arasu, Krishnasany
Binary Arrays with Desirable Correlation Properties
National Science Foundation
$10,000

Arlian, Larry
Tests of Acaricidal Efficacy Ecology Works, Inc.
$1,040

--- School of Business ---

Arlian, Larry
Supply of Mites
Pfizer Limited, Central Research
$1,568

Arlian, Larry
Efficiency of Dehumidifier in Controlling Mites
DEC International, Inc.
$4,451

Arlian, Larry
Allergen Characterization of Euroglyphus maynei
Miles, Inc.
$15,500

Arlian, Larry
Management of House Dust Mite Allergy
S.C. Johnson and Son, Inc.
$18,900

Bigley, Nancy and Charbonneau, Pamela
Women and Minority Participation in Graduate Education
U.S. Department of Education
$100,140

Burton, G. Allen
Sediment Testing
Cross Pointe Paper Corporation
$1,463

Burton, G. Allen
Algae Evaluation
Cross Pointe Paper Corporation
$6,000

Burton, G. Allen
Workplan for Assessing Sediment Contamination
Commonwealth Edison
$59,212

Carmichael, Wayne
A Supply of Cyanobacteria Secondary Metabolites
U.S. Fish and Wildlife
$600

Carmichael, Wayne
A Supply of Cyanobacteria Secondary Metabolites
Miscellaneous Sponsors
$1,600
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<td>NIH - National Cancer Institute</td>
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<td>Minority High School Apprentice Program - Ream</td>
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<td>Colgate-Palmolive Canada, Inc.</td>
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The Office of Research and Sponsored Programs (RSP) invites new faculty and those just getting started in research to an orientation seminar that will introduce the various services available in our office. To accommodate the schedules of faculty, the seminar will be held on Wednesday, October 18, 2:00 to 4:30 p.m. and Thursday, October 19, 9:00 a.m. to 11:30 a.m. in W169 Student Union (formerly 155B/C University Center).

This seminar will answer:
How do I locate external funding opportunities for which I am eligible?

Does the University have funds for research and scholarly projects?

What Federal and University regulations affect my proposal?

What must I know about administering external funds?

How will RSP help?

What other campus resources impact on sponsored programs?

How do I arrange for these services?

A time for informal discussion has been scheduled for answering your questions. In addition, RSP staff will be demonstrating their database that lists faculty research interests. Your name and interests will be added to this database at your request.

Please feel free to attend all or a part of the seminar. If you plan to attend, please contact Jan Power (Ext. 2425).