Spring 4-1-1992

WSU Research News, Spring 1992
Office of Research and Sponsored Programs, Wright State University

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RSP Acquires Dialog OnDisc Grants

Finding the source of external funding for your project can be a difficult and time-consuming task. Utilizing the latest in computer technology, the Office of Research and Sponsored Programs can make this process easier.

Dialog OnDisc Grants is the latest tool acquired by RSP. Information on over 8,000 funding sources, including federal, state, and local governments as well as foundations and industrial sponsors are available in an easy to use computer format in the Office of Research and Sponsored Programs located in 356 Fawcett Hall.

The database is constructed so that you can search for a single word or phrase and quickly locate all the documents containing it. If the results are too broad, you can limit the scope of your search with one or more concepts until the results are manageable. If the search is too narrow, you can easily broaden the search to include additional words or phrases. If you find too many irrelevant sources, you can exclude phrases which cause the false retrieval.

Each entry includes a full description of the program, funding levels, and information about renewals. Full names of contact persons, addresses for the sponsoring organization, and telephone numbers are included when available. The database covers current funding programs for research and development activities in all academic disciplines, as well as social service and other programs. Data are compiled from primary source materials supplied by the sponsoring organizations. Data are updated on a bimonthly basis.

The database can be accessed in one of two ways. An individual may choose to meet with the Director or one of the Assistant Directors who will assist in developing a search. Records can be printed directly from the program to a laser printer for further review.

As an alternative a faculty or staff member may wish to explore the database on his or her own. If you wish to do this, please make an appointment so RSP can make a computer available for your use. We will assist you in getting started and show you how to print any records you find interesting.

For many of the sources you locate using Dialog OnDisc, RSP will have additional information and program guidelines available in our library. If not, we will request these documents for you from the sponsor.

In all cases, prospective proposal writers are encouraged to contact the potential sponsor to explore the sponsor’s needs. RSP can provide a list of sample questions which will help you determine if your project fits the sponsor’s funding priorities and objectives. Often, program officials are willing to share their insights and offer suggestions regarding
Notes from the Director

Best Wishes

We would like to congratulate Ms. Deborah Vetter on her recent appointment as Associate Director for Grant Development in the School of Medicine’s Office of Research Affairs. During her three years with RSP, Deborah has provided excellent service to the faculty in their search for external funding for research and other scholarly projects. Deborah started her new position on May 1 and we look forward to working with her in her new capacity.

Grant Tips

As with a scholarly publication, you should present your proposal logically and clearly, and show that your proposed project is meaningful. Explicitly describe your hypothesis and how it will be tested. Be sure that your proposed project has coherent direction and that the various sections are well coordinated and are clearly related to a central focus.

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
- 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 call us (ext. 2425) or visit the office in 356 Fawcett Hall.

Plan Ahead!

If you are planning to seek summer salary support for next year, start looking for funding sources NOW! Many sources take up to nine months to make decisions regarding your proposal.

RSP will assist you in locating the right funding sources for your research interests. Or you can use Dialog OnDisc (see page 1) and find possible sources at your convenience.

New NIH Forms Available

The National Institutes of Health has made major changes to its application forms and guidelines. The changes are effective for all proposals submitted after May 1, 1992.

New application packages (PHS Form 398) and continuation application packages (PHS Form 2590) are available in RSP. Please call Jan Power at ext. 2425 if you would like copies.

Summer Addresses

If you are planning to be away from the area during the summer months and would still like to receive RSP’s mailings, please contact Jan Power at Ext. 2425 to provide us with your summer address.

Phil

Continued from pg. 1

We are very excited about the power and versatility of this new tool. As we use it, we are learning new strategies to assist you in locating funding for your scholarly activities and research.

For additional information about Dialog OnDisk Grants, please contact Phil Spina at ext. 2425.
What is a patent?

A patent is a grant from the federal government that entitles the patent owner to prevent others from practicing an invention for a limited period of time. In the case of U.S. utility or plant patents, the term is 17 years. For example, a patent covering a product or a process entitles the patent owner to prevent others from making, using or selling the product or process. In return for granting the patent, the law stipulates that the invention be made public. Thus, by reading the patent and by obtaining any relevant materials required by the Patent Office to be on deposit, others are able to practice the invention if given a license or other legal right to do so by the patent owner. No additional information or material is required.

Does a patent provide the right to practice an invention?

Technically speaking, no. The owner of a patent has the right to prevent others from practicing the invention covered by the patent. The owner has no absolute right to practice the invention. By way of example, the practice of a patented invention may also infringe on a dominating patent owned by another party. The fact that it is often necessary to obtain approval from a federal agency, such as the United States Food and Drug Administration, to sell a patented pharmaceutical product or medical device is a second example showing that a patent owner has no absolute right to practice an invention.

What kind of inventions are patentable?

Under U.S. law, "Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent..." U.S. patent law defines process as "process, art or method, and includes a new use of a known process, machine, manufacture, composition of matter or material." Some examples of inventions that may be patentable are:

- New compounds
- New uses of known compounds
- Mechanical devices
- Instrumentation
- Chemical processes
- Methods of making and using genetically engineered products as well as the products themselves
- Plants
- Novel computer systems and software
- New life forms

Bare ideas or mental processes cannot be patented. Patents can be obtained only on a tangible embodiment of an idea.

What are the criteria for patentability?

An invention must meet three criteria to be patentable. It must be novel, useful and not obvious.

Novelty

- This simply means that the invention must be new, i.e., different from what has been done or known previously.
- New uses of known products, machines, composition of matter and materials are patentable.

Usefulness

- An invention must perform or satisfy a useful purpose.
- The invention need not have commercial value nor be superior to other means for achieving the same or similar purposes to be patentable. Superiority, however may help show that an invention was not obvious to those skilled in the art at the time it was made.
- Frivolous inventions are not patentable.

Obviousness

- An invention must not be obvious.
- The nonobvious criterion is determined from the perspective of a person having ordinary skill in the art of the invention at the time the invention was made. Art or prior art includes patents, publications and general knowledge in the field(s) of the invention as they existed at that time.

ADMINISTRATION

Howard, Lillie
Dayton Urban Postsecondary Demonstration Lab - II
Ohio Board of Regents
$70,000

Hutzel, Willard
Microcomputer Systems
Miami Valley Research Institute (CAIA)
$44,000

Hutzel, Willard
Artificial Intelligence
Ohio Board of Regents
$194,158

Waugh, Elaine
Governor's Summer Institute
Ohio Department of Education
$50,000

COLLEGE OF EDUCATION
AND HUMAN SERVICES

Courtney, Donna
Vocational Ed Personnel Development Regional Center
Ohio Department of Education
$12,325

Frederick, Stephen
Health Fitness for Life
U.S. Department of Education
$210,000

Messner, Phillip
A Model-Cooperative Training Program
AcuStar, Chrysler Motors
$658,344

Ricks, James
A Survey of Perceptions Sidney/Shelby County Schools
Sidney/Shelby County Schools
$15,405

COLLEGE OF ENGINEERING
AND COMPUTER SCIENCE

Dadras, Parviz
Refractory Composites and Dissimilar Materials
Foster-Miller, Inc.
$9,600

Dadras, Parviz
Development of Improved Carbon-Carbon to Carbon-Carbon Joints
Foster-Miller, Inc.
$12,332

Faghri, Amir
Modeling of High Temperature Heat Pipes
USAF: Wright Laboratory
$50,000

Fautheree, David
Expert Systems Development Course (IV)
Miami Valley Research Institute (CAIA)
$1,868

Fautheree, David
Expert Systems (CLIPS) Development Course (III)
Miami Valley Research Institute (CAIA)
$3,095

Fautheree, David
Additional Technical Support/Prototyping Facility
Miami Valley Research Institute (CAIA)
$3,477

Fautheree, David
Product Development
Intersolv, Inc.
$5,539

Grandhi, Ramana and Srinivasan, Raghavan
Design of Intermediate Shapes in Forging
Edison Materials Technology Center
$14,200

Grandhi, Ramana
Process Control of Microstructure in Manufacturing
USAF: Wright Laboratory
$62,000

Grandhi, Ramana
FAA-Aircraft Structural Response/Internal Blast Advisor
Miami Valley Research Institute (CAIA)
$120,000

Kirby, Kevin
Neural Network Familiarization Workshop (II)
Miami Valley Research Institute (CAIA)
$1,523

Mehrotra, Gopal
Thermodynamic Studies of Ti-Al Alloys Containing Dissolved Oxygen
National Aeronautics and Space Administration
$31,308
Naishadham, Krishna
Analysis of Planar Transmission Lines
Southeastern Center for Electrical Engineering Education (SCEEE)
$15,688

Rader, Cynthia
Hypertest for CALS/AI Implementation Plan
Miami Valley Research Institute (CAIA)
$7,256

Shui, Y.C. Gregory
Automated Gauging of Hard Disk Drive Head Suspension Assembly
Gem City Engineering
$4,000

Shui, Y.C. Gregory
Robotic Vision for Plastic Parts Recognition: Phase I
Gem City Engineering
$4,971

Srinivasan, Raghavan
Isothermal Compression Testing
Allison Gas Turbine Division
$35,987

Sudkamp, Thomas
Image Enhancement with Fuzzy Filters
Research & Development Laboratories
$20,000

Weiss, Isaac and Srinivasan, Raghavan
Deformation & Thermal Processing Maps
Timet Corporation
$30,000

Look, David
Solar Cells Analysis
USAF: Wright Laboratory
$7,000

Look, David
III-V Compound Mesfet/Modfet Device Performance Study
Office of Naval Research
$55,250

Look, David
Advanced Semiconductor Materials & Devices
USAF: Wright Laboratory
$400,000

Thomas, Joseph
Ohio Aerospace Institute Fellowships
Ohio Aerospace Institute
$5,000

Knapke, Thomas
Small Business Development Center
Ohio Department of Development
$66,434

Dustin, Jack and Green, Phyllis
Jefferson Township Economic Development Action Plan
Jefferson Township
$40,000

Reichert, Julia
Ohio Media Training Program
Arts Dayton
$2,000

Arnold, William
In Vivo Evaluation of Catheter Material
Becton Dickinson Polymer Research
$3,019

Chumlea, Wm. Cameron & Guo, Shumei
Assessment of Bioelectric Impedance Instrumentation
Ross Laboratories
$25,000

Cruz, Phillip
Ribozyme Solution Structure: Hairpin Model
Northern Illinois University
$2,536

Fortunato, Stephen
Clinical Trial of New Treatments for Infection
Merck Sharp and Dohme, Inc.
$4,400

Fortunato, Stephen and Dodson, Melvin
New Treatments for Post-Partum Endomyometritis
E.R. Squibb and Sons
$11,115

Hangartner, Thomas
Influence of Calcium on Bone Mass During Puberty
Ohio State University (NIH Subcontract)
$16,171

Hoffman, Mary Ann
Machine-Readable Cataloguing of Medical Artifacts
The Cleveland Medical Library Association
$14,000
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<tr>
<th>Awards</th>
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<th>Title</th>
<th>Organization</th>
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<td>Kapp, Marshall</td>
<td>Alternatives to Guardianship for the Elderly</td>
<td>The Retirement Research Foundation</td>
<td>$58,990</td>
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<td>Lucot, James</td>
<td>Antimotion Sickness Medication Screening</td>
<td>Solvay-Duphar B.V. (Holland)</td>
<td>$7,100</td>
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<td>Maurana, Cheryl; Fox, Ronald; Goldenberg, Kim; and Swart, Jane</td>
<td>Community Partnerships Initiative</td>
<td>W. K. Kellogg Foundation</td>
<td>$753,788</td>
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<td>Moore, Dennis</td>
<td>Video Tape Co-Sponsor</td>
<td>Very Special Arts - National</td>
<td>$3,500</td>
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<td>Nahhas, William</td>
<td>Prevention of Cisplatin Induced Neuropathy</td>
<td>Organon Inc.</td>
<td>$55,000</td>
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<td>Roche, Alexander and</td>
<td>Influence of Calcium on Bone Mass Formation During Puberty</td>
<td>Ohio State University (NIH Subcontract)</td>
<td>$23,960</td>
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<td>Chumlea, Wm. Cameron</td>
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<td>Sorg, Timothy</td>
<td>H. influenzae Vaccine and Prevention of Hearing Loss</td>
<td>The Deafness Research Foundation</td>
<td>$14,960</td>
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<td>Trulzsch, Dietmar</td>
<td>Relief of Duodenal Ulcer Pain</td>
<td>National Medical Research Corp.</td>
<td>$1,837</td>
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**SCHOOL OF PROFESSIONAL PSYCHOLOGY**

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<td>Hammond, W. Rodney</td>
<td>Positive Emotional Capacity Enhancement</td>
<td>Ohio Commission on Minority Health</td>
<td>$70,000</td>
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<td>Hammond, W. Rodney</td>
<td>Positive Adolescents Choices Training</td>
<td>Governor's Office of Criminal Justice Services</td>
<td>$88,198</td>
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<td>Pollock, Susan</td>
<td>Organizational Development Services</td>
<td>Montgomery County ADAMH Services Board</td>
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**COLLEGE OF SCIENCE AND MATHEMATICS**

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<td>Arlian, Larry</td>
<td>Evaluation of Drugs for Control of Sarcoptes scabiei</td>
<td>Merck Sharp and Dohme Research Lab.</td>
<td>$21,998</td>
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<td>Burton, G. Allen</td>
<td>Multiple Bioindicators &amp; Endpoints of Stream Toxicity</td>
<td>U.S. Environmental Protection Agency</td>
<td>$95,429</td>
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<td>Carmichael, Wayne</td>
<td>Biosynthetic Pathways of Cyanobacterial Hepatotoxins</td>
<td>University of Illinois (NIH Subcontract)</td>
<td>$26,790</td>
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<td>Carmichael, Wayne</td>
<td>New Cultures/Natural Products Testing Agreement</td>
<td>Eli Lilly/Dowelanco</td>
<td>$42,000</td>
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<td>Siervogel, Roger; Roche, Alexander; and Guo, Shumei</td>
<td>Subcutaneous Fat, Blood Lipids and Subsequent Outcome</td>
<td>Tennessee Valley Authority</td>
<td>$72,101</td>
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Clark, Jerry
Electrical Conductivity & Characteristic Energy in Gas Mixture
SCEEE
$36,948

Cummings, Sue and Battino, Rubin
Chemistry Outreach Programs - II
The Martha Holden Jennings Foundation
$10,000

Hubschman, Jerry
Zebra Mussel Populations Relative to Depth
Ohio Sea Grant College Program
$2,000

Ketcha, Daniel
Synthesis/Natural Products Using N Protected Pyrroles
Petroleum Research Fund - American Chemical Society
$20,000

Mann, Barbara
Reliability Study
Match Laboratory
$2,884

McKee, Terry
Intersection Multigraphs and Related Constructs
Office of Naval Research
$27,647

Svobodny, Thomas
Control Theory-Nonlinear Partial Differential Equations
Office of Naval Research
$20,000

Tiernan, Thomas
Dibenzo dioxin/Dibenzo furan in Oils and Defoamers
NALCO Chemical Company
$2,000

Tiernan, Thomas
Toxic Components/Precurso rs in Paper Pulp and Wastes
Container Corporation of America
$8,000

Tiernan, Thomas
PCDD/PCDF in Chemical Wastes
BASF Corporation
$9,600

Tiernan, Thomas
Interlab Analytical Method Evaluation
Environment Canada
$8,245

Tiernan, Thomas
Isomer Specific Quantitation Methods for PCDD/PCDF
Dow Chemical Canada, Inc.
$21,600

Tiernan, Thomas
Characterization of Paper Mill Waste for PCDD/PCDF
Mead Paper Company
$99,400

Turnbull, Kenneth
Biological Testing - II (Merck)
Merck and Co., Inc.
$100

---INSTRUCTIONAL SERVICES---

Kreye, Warren
Ab Initio Molecular Structure Study/Gaussian 90
Pittsburgh Supercomputing Center
$0

Shearer, Anne
Upward Bound - Applied Science Summer Project
U.S. Department of Education
$174,711

---STUDENT SERVICES---

Vernooy, Jeffrey
Career Planning Workshop
Ohio Rehabilitation Services Commission
$2,800

The preceding grants and contracts were awarded from November 1991 through February 1992

The Office of Research and Sponsored Programs' staff recognizes the efforts of all proposal writers at Wright State.

We congratulate those receiving external funds and encourage those with unfunded proposals to consult with us about resubmission.
WSU Research Council Grants Total $87,160

The Research Council is pleased to announce that it has awarded grants to 24 faculty members to support their research and professional development. Thirty five proposals were submitted to the Research Initiation Grant competition with 15 selected for funding totalling $71,505. The Professional Development Grant competition attracted 17 proposals of which 9 were funded for a total of $15,655. The awardees are:

### Research Initiation

- **Richard W. Backs**
  - Aging, Energetics, and Complex Performance
  - SIM
  - $5,000

- **Cindy K. Carney**
  - Origin & Transport of Carbonate Grains in a Modern Carbonate Lagoon, San Salvador, Bahamas
  - E&CS
  - $2,820

- **Soon M. Chung**
  - Distributed Multimedia Information System
  - LA
  - $5,000

- **J. Scott Fraser**
  - Medical Cost Reduction Effects of Brief Psychotherapy
  - SOPP
  - $4,225

- **Ronald R. Geibert**
  - “New Street Photography” Exhibition To Be Held at DAI MoCA at WSU
  - LA
  - $5,000

- **Kathleen O. Glaus**
  - Personality Characteristics of Men and Women
  - SOPP
  - $4,975

- **Margaret C. Graham**
  - Health Promotion in the Black Community
  - Nursing
  - $4,960

- **Michael B. Hennessy**
  - Animal Model for Studies of Alcohol Consumption
  - S/M
  - $4,570

- **Tehming Liang**
  - Androgen Action in Skin
  - SOM
  - $5,000

- **Phillip E. Messner**
  - International Student Indicators of Success
  - EHS
  - $5,000

- **Dennis M. Rome**
  - Police Misconduct Survey
  - LA
  - $5,000

- **Brenda K. Stevenson**
  - Falls Intervention Study
  - Nursing
  - $5,000

- **Richard A. Wantz**
  - Professional Counseling
  - EHS
  - $5,000

- **Rita A. Wellens**
  - Body Composition by High Frequency Energy Absorption
  - SOM
  - $4,995

- **Kay R. Zelenski-Low**
  - ABH Blood Group Antigens and Antibodies in Porcine AHG Product
  - S/M
  - $4,960

### Professional Development

- **David L. Barr**
  - The Greek of John’s Apocalypse
  - LA
  - $1,880

- **Peter S. Bracher**
  - The Relationship of Victorian Painting and Literature
  - LA
  - $2,000

- **Peter S. Carusone**
  - Modern Day Evolution of the Shopping Center - 1966 to 1990
  - COBA
  - $650

- **James E. Dobbins**
  - Certification in Multicultural Competence
  - SOPP
  - $1,800

- **Ramana V. Grandhi**
  - Multidisciplinary Structural Optimization Short Course
  - E&CS
  - $2,000

- **Charles J. Hartmann**
  - French & Anglo-American Privacy Law: An Economical Analysis
  - COBA
  - $2,000

- **Robert L. Pohlman**
  - ACSM Exercise Test Technologist Certification
  - EHS
  - $1,400

- **Kuldip S. Rattan**
  - Multimedia Courseware for Circuit Analysis & Control
  - E&CS
  - $2,000

- **Nancy S. Trimble**
  - Developing Cross-Cultural Healing Traditions in Health Care
  - Nursing
  - $1,925