



# Grants & Research News

October 2004

Volume 1, Issue 3

## *Notes From the Director*

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#### **New Web Site**

The Office of Grants and Research recently launched a redesigned web site. The home page is a simple index. Links on the page allow rapid access to search engines for external funding, information on how to prepare a proposal, and forms for important compliance areas such as the Institutional Review Board (IRB). New links will be added in the future. A more complete description is found on page 3.

#### **Recent Conference on Undergraduate Research**

Eastern was represented at a recent conference entitled "Crossing Boundaries: Innovations in Undergraduate Research" that was held as the annual national meeting of the Council on Undergraduate Research (CUR). The Office of Grants and Research pays an annual fee for Eastern's membership in CUR. The conference included a series of Plenary Sessions as well as discipline specific interactive workshops tailored to the interests of faculty and administrators.

Andrew Methven, chair of the Department of Biological Sciences, attended the conference in LaCrosse, WI, and prepared the summary on page 2 of this newsletter. Tips for attracting underrepresented groups to research projects should be of interest to many disciplines.

#### **Internet Conference from National Endowment for the Humanities**

On August 12, the Office of Grants and Research sponsored a link to an Internet Conference produced by the Grants Resource Center. The Conference featured a presentation by Fred Winter, a long-time program officer at the National Endowment for the Humanities. See the report on page 3 for a description of major grants available for projects in the Humanities.

#### **Submissions and Awards**

The first quarter of FY05 (July 1 – September 30, 2004) saw many proposal submissions and newly funded projects. Please see pages 4-5 for a detailed listing.

*Bob Chesnut*  
*Director, Grants and Research*

**“ Crossing Boundaries: Innovations in Undergraduate Research ”**  
**Council on Undergraduate Research Tenth National Conference**  
**University of Wisconsin, La Crosse**  
**June 23-26, 2004**

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*Andrew Methven, Chair, Department of Biological Sciences*

**Plenary Sessions:**

*1. The Landscape for Undergraduate Research and The Research Laboratory as Context for Minority Student Success*

This session highlighted successful ways to attract underrepresented groups to undergraduate research. Successful methods include: 1) writing grant proposals that commit funds to recruitment of underrepresented students; 2) writing grant proposals that reserve “slots” in the laboratory for underrepresented students; and, 3) writing grant proposals to provide tuition and salary for underrepresented students as an aid in recruitment.

*2) Justice as a Motivation for Multidisciplinary Research*

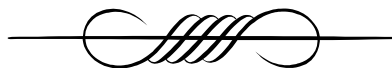
This session provided helpful tips for creating interdisciplinary research environments.

*3) Integrating Research, Teaching and Community Participation: The Collaborative Effort to Improve Water Quality in a Local Watershed*

This session demonstrated techniques to incorporate community-based service learning into research projects. Helpful tips for community-based service learning projects included: 1) the importance of incorporating several departments on campus into the project (e.g., Biology, Chemistry, Economics, Geography, Psychology, Sociology, etc.); 2) the necessity of interfacing with local governments, including city councils and county boards, to facilitate service learning and build bridges between academia and the public sector; and, 3) the possibility of requiring students to become involved in community service learning as part of their educational experience.

**Workshops:**

In addition to several discipline specific workshops there was an extremely useful workshop on *Assessment of Undergraduate Research Experience* that facilitated a discussion of the importance of assessment activities in federal grant proposals that support undergraduate research. Among the highlights of the workshop were discussions of 1) why assessment is important for accountability (and is often required by funding agencies); 2) why assessment should be formative so that programs can adjust during the grant period; 3) and, the requisite need to use web-based surveys. There was also an extremely beneficial workshop on *On-Line Grant-Seeking Resources* that allowed participants to access major, national, on-line information resources that are usually available by subscription only. Among the on-line grant-seeking resources showcased were COS (Community of Science), IRIS, SPIN.plus, ResearchResearch, GrantLink, and The Grant Advisor.



***Challenge Grants from the National Endowment for the Humanities (NEH)***  
**An Internet Conference on August 12, 2004**

*Summarized by Bob Chesnut, Director of Grants and Research*

According to the program announcement: “NEH challenge grants help institutions and organizations secure long-term improvements in and support for their humanities programs and resources. Awards are made to museums, public libraries, colleges, research institutions, historical societies and historic sites, public television and radio stations, universities, scholarly associations, state humanities councils, and other nonprofit entities. Because of the matching requirements, these NEH awards also strengthen the humanities by encouraging non-federal sources of support.”

“Challenge grants most commonly augment or establish endowments. The income from invested funds may support ongoing humanities activities in education, public programming, scholarly research, and preservation. Examples include faculty and staff positions, fellowships, lecture or exhibition series, visiting scholars, publishing subventions, consultants, maintenance of facilities, faculty development, acquisitions, and preservation/conservation programs.” In some cases, construction or renovation of facilities is allowed.

The minimum amount of a challenge grant is \$30,000, while the maximum is \$1,000,000. The money must be matched 3:1 by contributions from nonfederal sources (for first-time applicants). Matching money can come from individuals or from foundations. Application deadlines typically fall in May and November of each year.

Fred Winter, program official at NEH made these helpful points:

- NEH provides examples of successful proposals.
- NEH encourages applicants to call the program officer.
- NEH encourages submission of preliminary drafts for feedback from the program officer.
- The success rate of applications for Challenge Grants is approximately 25 – 33%.
- Collaboration among several Humanities disciplines favors success of a proposal.

***NEW WEBSITE FOR THE OFFICE OF GRANTS AND RESEARCH***

The Office of Grants and Research recently launched a new website. The home page is designed to be a practical tool for the many users of our services. One section is composed of resources that help locate sources of external funding. Eastern subscribes to two electronic search engines, SPIN and IRIS. Links to these services are featured prominently on the new home page. A second section is devoted to sources of internal funding. The programs of the Council on Faculty Research are described, and links to other internal funding programs are organized into a list. The third major section collects all important information about applying for and administering a grant. Eastern has a number of internal policies that regulate grants, and these policies are succinctly summarized in this section. The fourth section of the web site focuses entirely on compliance, with regulations such as use of animals and humans in research, as well as chemical and radiation safety; several links will be activated in this section in the near future. The final sections of the new site contain news items and staff contact information. The very last link on the page leads to a collection of forms. Anyone who needs only forms will be able to reach all forms directly from the home page.



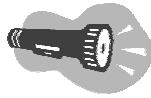
## Awards Received / July - September

- Barria, Lilian**, Political Science. Indonesian Human Rights Court. The United States Indonesian Society, \$1,000. \*
- Bell, David**, Library Services. Theatre Arts Cooperative Collection Project Year 2. Illinois Cooperative Collection Management Program, \$3,000.
- Bell, David**, Library Services. Holocaust Media. Illinois Cooperative Collection Management Program, \$2,006.
- Campbell, Julie**, English. In Dialog with the Other Voice in Sixteenth-Century Italy. Collaborative Research Grant, National Endowment for the Humanities, \$5,000. \*
- Costa, Charles**, Biological Sciences. Functional Analysis of the Tomato Ca-ATPase Mechanism. National Science Foundation - Illinois State University, \$7,000.
- Cross, Jeffrey**, Academic Affairs. Title III Institutional Development Planning Grant. U.S. Department of Education, \$35,000.
- Daniels, Steven / Brandt, Doug**, Physics. Enhanced Chemical Batteries for Military Application. Trace Photonics - Defense Advanced Research Projects Agencies, \$300,000.
- Davenport, Mona**, Minority Affairs. TRIO: Student Support Services FY05. U.S. Department of Education, \$237,607.
- Davidson, Eric**, Health Services. "I Live Free - Tobacco Free". Southern Illinois University-Carbondale Center for Rural Health and Social Service Development, \$10,000.
- Fritz, Ann**, Biological Sciences. Female Sperm Storage and Paternity Outcomes in Relation to Male Copulatory Courtship in the Tephritid Fly, *Anastrepha suspensa*. U.S. Department of Agriculture, \$99,287.
- Herrington Perry, Mary**, Academic Affairs. Course Application System (CAS): Phase One. Illinois Board of Higher Education, \$8,400.
- Kuma, Johnson**, Library Services. Islamic North African Literature World Literature Collections Partnership. Illinois Cooperative Collection Management Program, \$1,750.
- Marjanovic, Marina**, Biological Sciences. Novel Roles of Urea in Amphibian Hibernation. National Science Foundation - Miami (Ohio) University, \$74,656.
- Markwell, Becky**, Safety Programs. Child Passenger Safety Resource Center. Illinois Department of Transportation, \$226,577.
- Markwell, Becky**, Safety Programs. Special Projects FY05. Illinois Department of Human Services, \$132,000.
- Markwell, Becky**, Safety Programs. Substance Abuse FY05. Illinois Department of Human Services, \$265,100.
- Markwell, Becky**, Safety Programs. Law Enforcement Liaison Program FY05. Illinois Department of Transportation, \$760,781.
- Meiners, Scott**, Biological Sciences. Exotic Plant Invasions in Abandoned Agricultural Land: A Long Term Perspective. National Science Foundation, \$229,521.
- Morford, Linda**, Educational Administration. New Leaders Assistance Program. University of Illinois at Urbana-Champaign, \$12,800.
- Nathan, Britto**, Biological Sciences. Transgenic Models to Study the Role of apoE in Alzheimer's Disease. Illinois Department of Public Health, \$30,000.
- Over, Thomas**, Geology/Geography. Collaborative Research: Effect of Atmosphere Humidity on Susceptibility of Dry Soils to Wind Erosion. National Science Foundation, \$73,581.
- Ozier, Jayne**, Family and Consumer Sciences. Child Care Resource and Referral FY05. Illinois Department of Human Services, \$521,000.
- Peebles, Rebecca**, Chemistry. Investigation of Species of Atmospheric Interest by Infrared Cavity Ringdown Spectroscopy. Camille and Henry Dreyfus Foundation, \$30,000.
- Rohn, Charles**, College of Education and Professional Studies. Charleston PE Curriculum Supervision. CUSD #1 (Charleston Public Schools), \$12,000.
- Sailors, Richard**, WEIU. Illinois Public Broadcasting Grant FY05 (Part One). Illinois Arts Council, \$117,700.
- Shank, Kathlene**, Special Education. Increasing Highly Qualified Special Education Personnel - An Outreach Project (Year Two). Illinois State Board of Education, \$162,000.
- Strader, Michael**, Peace Meal. Nutrition Services Incentive Program Award FY05. East Central Illinois Area Agency on Aging - U.S. Department of Agriculture, \$209,481.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. East Central Illinois Area Agency on Aging, \$1,116,717.
- VanCleave, Nancy / Andrews, Peter / Slough, William**, Mathematics. Building Communities: Recruiting and Retention of Underrepresented Groups in Computer Science. National Science Foundation - University of Illinois at Urbana-Champaign, \$69,997.

\* Award was made directly to individual.

## Proposals Submitted / July - September

- Bell, David**, Library Services. Theatre Arts Cooperative Collection Project Year 2. Illinois Cooperative Collection Management Program.
- Bell, David**, Library Services. Holocaust Media. Illinois Cooperative Collection Management Program.
- Bizer, George**, Psychology. RUI: Attitude Framing and Attitude Strength. National Science Foundation.
- Brownson, Ann**, Library Services. Enhancing the Education Collection. Illinois State Library.
- Costa, Charles**, Biological Sciences. Functional Analysis of the Tomato Ca-ATPase Mechanism. National Science Foundation - Illinois State University.
- Crews, Daniel**, College of Arts and Humanities. Gregg Toland Symposium. Illinois Arts Council.
- Daniel, Steven / Furumo, Norbert**, Biological Sciences / Chemistry. Extracellular Polymeric Substances from a Novel Polyextremophilic Fungus is Critical for Conquering a Hostile Environmental Niche. National Science Foundation - University of Wisconsin at Madison.
- Dau, Jeanne**, Business and Technology Institute. Employer Training Investment Program (ETIP). Illinois Department of Commerce and Economic Opportunity.
- Davenport, Mona**, Minority Affairs. TRIO: Student Support Services FY06-10. U.S. Department of Education.
- Davidson, Eric**, Health Services. "I Live Free - Tobacco Free". Southern Illinois University-Carbondale Center for Rural Health and Social Service Development.
- Fischer, Robert / Bollinger, Eric**, Biological Sciences. Biology REU Site: Ecology, Behavior and Physiology of Organisms in an Agricultural Landscape. National Science Foundation.
- Herrington Perry, Mary**, Academic Affairs. Course Application System (CAS): Phase One. Illinois Board of Higher Education.
- Kuma, Johnson**, Library Services. Islamic North African Literature World Literature Collections Partnership. Illinois Cooperative Collection Management Program.
- Marjanovic, Marina / Lawrence, Barbara / Treadwell, Edward**, Biological Sciences / Chemistry / Chemistry. RUI: Investing Novel Cryoprotectants in Freeze-Tolerant Animals Using NMR Spectroscopy. National Science Foundation.
- Markwell, Becky**, Safety Programs. Substance Abuse FY05. Illinois Department of Human Services.
- Markwell, Becky**, Safety Programs. Special Projects FY05. Illinois Department of Human Services.
- Markwell, Becky**, Safety Programs. Law Enforcement Liaison Program FY05. Illinois Department of Transportation.
- Morford, Linda**, Educational Administration. New Leaders Assistance Program. University of Illinois at Urbana-Champaign.
- Over, Thomas**, Geology/Geography. Collaborative Research: Soil-Atmosphere Interactions and Precipitation Recycling in Mid-Latitude North America. National Science Foundation.
- Ozier, Jayne**, Family and Consumer Sciences. Child Care Resource and Referral FY05. Illinois Department of Human Services.
- Richard, Gail**, Communication Disorders and Sciences. The Effect of Sensory Stimulation on Off-Task Behavior in Children within ASD. The Autism Project.
- Richard, Gail**, Communication Disorders and Sciences. Assessing the Validity of the Differential Assessment of Autism and Other Developmental Disorders (DAADD) as a Screening Tool. The Autism Project.
- Rohn, Charles**, College of Education and Professional Studies. Charleston PE Curriculum Supervision. CUSD #1 (Charleston Public Schools).
- Sailors, Richard**, WEIU. Illinois Public Broadcasting Grant FY05. Illinois Arts Council.
- Sailors, Richard**, WEIU. PBS - Ready to Learn FY05. Public Broadcasting System.
- Sailors, Richard**, WEIU. CPB - Community Service Grant FY05. Corporation for Public Broadcasting.
- Sailors, Richard**, WEIU. CPB - Local Service Grant FY05. Corporation for Public Broadcasting.
- Sailors, Richard**, WEIU. CPB - Interconnection Grant FY05. Corporation for Public Broadcasting.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY04. 56 various Agencies.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Altria - 2004 Senior Helpings.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Livingston County Board.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Clark County Board.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Dwight Community Chest.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Community Foundation of East Central Illinois.
- Strader, Michael**, Peace Meal. Senior Nutrition Program FY05. Willow Estates.
- Wall, Andrew**, College of Education and Professional Studies. Teacher Graduates Assessment for the State of Illinois. Joyce Foundation.



# Campus Spotlight

## Selected Accomplishments at EIU



- **Ryan Hendrickson**, Associate Professor of Political Science, recently published a book entitled *The Clinton Wars: The Constitution, Congress, and War Powers*. As Vanderbilt University Press describes the book, Prof. Hendrickson “examines the behavior of the Clinton administration and Congress in dealing with the range of American military operations that occurred during the Clinton presidency. He uses a case-study approach, laying out the foreign background and domestic political controversies in separate chapters on Somalia, Haiti, Bosnia, Kosovo, and Iraq.” “We see the president relying on congressional consultation and approval during periods of political or personal weakness, and, conversely, in better times we see a president with a freer hand.” The book is one representative of Prof. Hendrickson’s broad scholarly work that includes more than 15 articles in the past five years, several book chapters, numerous book reviews, and nearly 20 presentations at conferences. His current research includes preparation of a book on the role of the NATO Secretary General in influencing military action. For the public, Dr. Hendrickson has written a number of op-ed pieces in newspapers. Prof. Hendrickson teaches courses such as U.S. Foreign Policy, International Relations, and Civil-Military Relations. In recent years, Dr. Hendrickson has directed the thesis projects of five graduate students, and his teaching has garnered numerous student nominations for awards, as well as a Teacher-Scholar Award at EIU.

- **Jenny Chi**, Assistant Professor of Art, “paints in a style reminiscent of the old masters,” a style she has mastered by study at the Graduate School of Figurative Art of New York Academy of Art. Some of her work can be viewed online in a recent issue of AGORA, the online journal of the EIU English Department (<http://www.eiu.edu/~agora/Sept04/JenallB.htm>). Many of Prof. Chi’s paintings are owned by private collectors and by galleries. In the past five years alone, her work has been included in 25 exhibitions. Prof. Chi is in demand as a juror of art competitions and as a speaker at workshops. Her accomplishments have led to several awards including Artist in Residence (Duval County School Board, Jacksonville, Florida) and a White House Blue Ribbon Christmas Project (Washington, D.C.). Eastern has supported her work with a travel grant from the College of Arts and Humanities and with a summer award for creative activity from the Council on Faculty Research. Prof. Chi teaches courses in Figure Drawing and Paintings.

- Eastern’s School of Technology has been strengthened by the courses developed by **Prof. Ping Liu**. EIU students benefit from courses including Experimental Design for Quality, Polymers and Composites, and Advanced Database Technology. Dr. Liu has also developed a course in injection molding that is offered directly to practitioners in the plastics industry. Under Dr. Liu’s direction, many graduate students have completed diverse projects such as the measuring physical properties of recycled plastics and optimizing plastic structures used for surgical applications. Dr. Liu’s research has been supported by many substantial grants from both private and government sources including the National Science Foundation (NSF), the Illinois Department of Energy and Natural Resources, and The Charles A. and Anne Morrow Lindbergh Foundation. Some of this external funding has been used to acquire materials testing equipment for the School of Technology; notably, an NSF grant added an electron microscope to Eastern’s capabilities. Since 1999, Prof. Liu has published more than 15 scholarly papers and served his profession as an external reviewer of grant proposals. Eastern has recognized Prof. Liu’s contributions with many awards for research. Currently, Dr. Liu is a Certified Professional in use of the Oracle database. This skill and his expertise in analysis of steel components continue to place him in demand as a consultant to several companies in the region.

- Three Eastern professors have contributed to a health education program for youth. The program entitled, “I Sing the Body Electric”, combined the arts and prevention in connecting youth with health and education communities in rural Illinois. “I Sing the Body Electric” awarded grants to students for purchase of materials and equipment which the students used to produce education materials. These productions were showcased at an Arts & Health Festival. The students’ materials were then used as the basis for lesson plans produced for junior high and high schools in the region. Also, the student-created messages were developed into Public Service Announcements with assistance from WCIA, the CBS affiliate in Champaign, Illinois. Currently, I Sing the Body Electric is being replicated in 14 Vermilion County high schools. Professors **Mark Borzi**, **Julie Dietz**, and **Kathy Phillips** have been funded via Body Electric as external evaluators for the program. The team designed a multi-year evaluation process to examine the impact of Body Electric, particularly on the students involved in the project, including the EIU student interns. Currently, the team is working on a series of articles for publication. Borzi has been focused on data analysis for the entire study. He is particularly interested in looking at the communication aspects of the project, including impact of different modes of communication and impact on entire communities. Dietz is currently working on several articles examining the data related to sexuality. Phillips is writing an overview article that will be followed by a series of articles exploring the data on drugs and alcohol.

