

# **R / B** *Research in Brief*

**May 7, 2004**

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## **Limited Service May 12-14**

Next week, May 12-14, ISU is hosting the Big XII Sponsored Programs Conference in Des Moines. During these three days, the Office of Sponsored Programs Administration and Sponsored Programs Accounting will have very limited staff. Many other offices across campus will also have staff attending this conference. Please process any time-sensitive documents that are due during this period before this conference.

## **Reminder**

The Office of the Vice Provost for Research and the Office of Sponsored Programs Administration (OSPA) will start summer hours May 10 continuing through August 13. Hours will be 7:30 a.m. to 4:00 p.m. Appointments with administrators can still be made after 4 p.m. as needed.

## **New Patents**

- To Alan M. Myers and Martha James, BBMB, *Dull Coding for a Starch Synthase and Uses Thereof*, Patent No. 6,639,125
- To Susan Duvick and Linda Pollak, Agron, and Pamela White, FSHN, *Altered Fatty-Acid, Protein, Oil and Starch Corn Lines and Method for Producing Same*, Patent No. 6,639,132

## **Farewell**

- Joseph Hraba, professor of sociology, retiring May 15.
- Christie Pope, associate professor of history, retiring May 7.
- Alfred Ho, associate professor of political science, resigning May 15 to go to Indiana University-Purdue University Indianapolis.

## **Carver Trust Grants Awarded for Innovative Projects**

Carver Trust Grants are for bold, new, risky, innovative, and untried projects in the biological, physical and technological sciences, but they must hold potential for continuing development, including the attraction of funds from other sources. Funding for these grants was made available by the Roy J. Carver Charitable Trust.

**Ethan Badman**, Chem, *Analysis of Carbohydrates by Gas-Phase Ion/Ion Chemistry and Ion Mobility*

**Daniel Betts** and **Sinisa Grozdanic**, VCS, **Don Sakaguchi**, GDCB, and **Mark Hargrove**, BBMB, *Our Eyes Need to Breathe: Role of Neuroglobin and Histoglobin in Oxygen Homeostasis and Neuroprotection of Ischemic and Glaucomatous Eyes*

**David Oliver** and **Eve Wurtele**, GDCB, and **Basil Nikolau**, BBMB, *Oils in Leaves: A New Target for Plant Biomass Research*

**Dirk Reiners**, Comp Sci, *Afterburner - Profiling and Optimization of Interactive 3D Graphics Applications Based on Scenograph Systems*

**Jiming Song**, ECpE, *Fast Electromagnetic Simulations for VLSI Interconnects and RF Components*

**Sriram Sundararajan**, ME, and **Victor Lin**, Chem, *Design and Development of Adaptive Surfaces Using Multifunctionalized Mesoporous Nanosphere Films*

## **Big XII Conference**

Registration for the Big XII Conference on Sponsored Funding has been outstanding with a total of 166 registrations. Approximately half are from ISU. The conference planning committee has worked many months to assemble this meeting that will be very useful to all research administrators. If you haven't registered and are interested in attending, please go to <http://ospa.iastate.edu/big12/> for all the details!

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### University Research Grants Awarded to New Faculty

University Research Grants provide “seed money” to begin research or scholarship that is expected to continue developing and to attract funding from other sources beyond the period covered by the “seed” funding. Eligibility was restricted to faculty/staff members who have joined ISU on or after July 1, 2000.

**Monica Haddad**, CRP, and **Petruta Caragea**, Stat, *Spatial Analysis for Local Public Finance Decision Support*

**James Miller**, NREM, *The Contribution of Nature Reserves to the Conservations of Biodiversity in a Rapidly Urbanizing Region*

**Dirk Reinert**, Comp Sci, and **Chris Harding**, Geol & Atmos Sci, *Distributed Volume Rendering for High-Quality Display and Interaction with Large Data Sets*

**Amit Sharma** and **Jeannie Sneed**, AESHM, *Impact of Entrepreneurial Activity in Small Hotels and Restaurants on Economic Development of Tanzania*

**Masha Sosonkina**, Ames Lab, *Network-Aware Scientific Applications on Supercomputers with Multiple Interconnections*

**Chad Stahl**, Animal Science, *Evaluation of Colicins for Inhibitory Activity against E. coli of Importance in Swine Health*

**Hans Stauffer**, Chem, *Ultrafast Laser Detection and Control of Intramolecular Vibrational Energy Redistribution*

**Srikanta Tirthapura** and **Zhao Zhang**, ECpE, *A Theoretical Foundation for Job Scheduling in Grid Computing*

**Eliot Winer**, ME, *Web-Based Analysis and Visualization as an Aid in Medical Diagnosis and Treatment Decision-making*

Funding opportunities may be found at <http://grants-svr.admin.iastate.edu/Funding/homepage.html>

### Recent Sponsored Funding Awards

• To James Raich, EEOB, and German Mora, Geol & Atmos Sci, *Distinguishing Root from Soil Contributionist to Soil Respiration: Exploration of a New Approach* from the National Science Foundation, \$180,272

• To Jean Opsomer, Stat, *Nonparametric Model-Assisted Survey Estimation for Aquatic Resources* from Oregon State University, \$19,188

• To Jan Flora and Cornelia Flora, Soc, *Synthesis of Advocacy Coalition Work and a Look Forward* from the University of Georgia, \$10,000

### Some Research to Directly Benefit the State of Iowa:

• To Nick Christians, Hort, *The Use of Animal Protein Hydrolysates as a Nitrogen Source and as a Natural Preemergence Herbicide for Use in Horticulture Crops* from the ISU Research Park, \$17,000

• To Charles Hurburgh and Thomas Brumm, ABE, *Global Soybean Meal Quality Update* from the American Soybean Association, \$86,337

• To David White, Radhey Sharma and Tom Cackler, CCEE, and Vernon Schaefer, CTRE, *Embankment Quality Phase IV: Measurements of Seasonal Changes and Spatial Variation in Pavement Subgrade Support Properties* from the Iowa Department of Transportation, \$40,000

• To Jeff Zimmerman and Richard Evans, VDPAM, *Adaptive Immunity to Acute and Persistent Infection in Swine* from the University of Minnesota, \$78,217

• To Omar Smadi and Stephen Andrlle, CCEE, *Automated Pavement Condition Data: Analysis, Feasibility and Data Integration* from the Iowa Department of Transportation, \$35,599

Please recycle!