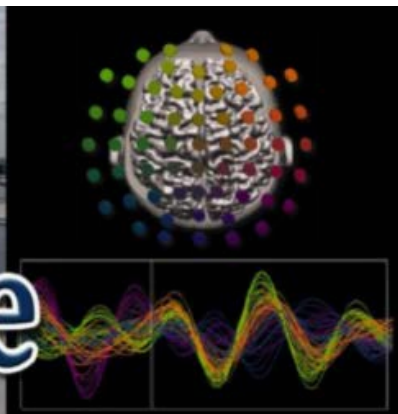


Rsch-L Update



News

Nov. 19, 2014

Events

Sustainability Tools in Environmental Decision Making Webinar

Nov. 20, 1:00 p.m.

Several authors of a new National Research Council [report](#) will explore opportunities for organizations to strengthen a systems-thinking approach in using sustainability tools and approaches to support decision-making. Click [here](#) for details.

NSF: An Insider's Perspective

Dec. 8, 7:30 a.m.-5:30 p.m.

Maryland Science Center

Register by Dec. 3

NSF Day, a \$100 event, offers behind-the-scenes insight and instruction on how to compete for NSF funding. Agenda topics include: NSF priorities, proposal writing, the agency's merit review process and funding opportunities. Click [here](#) to register. Contact Lisa-Joy Zgorski at nsfday@nsf.gov with questions.

Scientists Find Novel Approach for Treating the Leading Cause of Blindness in Elderly



High concentrations of oxygen, or oxidative stress, may be the cause of more than 70 widely-spread diseases such as cancer, heart disease, neurodegenerative diseases and eye diseases including macular degeneration.

Scientists at FAU's Charles E. Schmidt College of Science and the FAU Charles E. Schmidt College of Medicine, have found that sulindac, a known anti-inflammatory drug, can protect against oxidative damage due to age-related macular degeneration, one of the primary causes of vision loss in the elderly.

Their findings were recently released in an article titled "Pharmacological protection of retinal pigmented epithelial cells by sulindac involves PPAR- α " in the prestigious Proceedings of the National Academy of Sciences.

The lead author, Arunodoy Sur (right), a recent alumnus of FAU's Department of Biological Sciences, collaborated with Drs. Shailaja Kesaraju (above), Kasirajan Ayyanathan, Diane Baronas-Lowell, Janet Blanks and Herbert Weissbach of the College of Science and Dr. Howard Prentice



Funding Opportunities

American Institute for Medical and Biological Engineering Scholars Program

Due: Dec. 5

This program supports distinguished post-doctorates in the medical and biomedical engineering fields to serve as expert advisors to policymakers at the Food and Drug Administration. Scholars will increase their understanding of the federal policy process, while building relationships with government stakeholders. The program provides a \$70,000 stipend and an allowance to attend scientific conferences. Learn more [here](#).

Hinkley Center on Solid and Hazardous Waste Management

Pre-proposals due: Dec. 12, proposals by April 6

Proposals on solid and hazardous waste management research are solicited from private and public Florida state universities and colleges. Read the RFP [here](#).

Application Performance of Large-Scale Computing Systems

Due: Feb. 2

This opportunity supports activities by the NSF cyber-infrastructure community in the analysis of existing benchmarks, and in the development of new benchmarks, that measure real-world performance and effectiveness of large-scale

in the College of Medicine, along with colleagues at the University of Southern California.

Read more [here](#) and the PNAS article [here](#).

HBOI Grant Bolsters Research in Arctic



Arturo de Frias Marques

Greg O'Corry-Crowe, Ph.D., Associate Research Professor, at FAU Harbor Branch Oceanographic Institute, recently received a \$170,000 grant for polar bear research in the Arctic. The North Slope Borough-Shell Baseline Studies Program awarded the grant to Harbor Branch's Population Biology and Behavioral Ecology, which O'Corry-Crowe leads.

Harbor Branch researchers will be using SNP genotyping in genetic mark-recapture studies of Polar bears in the Alaskan Arctic, and is the first research project of its kind for the program.

"The polar bear is the iconic species of the north and of global climate change," said O'Corry-Crowe, principal investigator. "This work not only solidifies (our) overall research presence in the Arctic, but puts the institute and the university on the front lines of major research efforts on global issues such as climate change with major conservation, societal and even geopolitical impact."

SNMREC Collaborates with European Marine Energy Firm

Minesto, a European marine energy company, will collaborate with FAU's Southeast National Marine Renewable Energy Center to study the technical, environmental and economic viability of installing demonstration and commercial power plants in the ocean bed 13 miles off the Broward coast, according to [power-technology.com](#), an online resource to the power and energy industries.

computing systems for science and engineering discovery. Read the announcement [here](#).

Algorithms in the Field

Due: Feb. 9

This NSF program encourages closer collaboration between theoretical computer science and applied researchers. Proposals are expected to address the dissemination of the algorithmic contributions and resulting applications, tools, languages, compilers, libraries, architectures, systems and data. Click [here](#) for details.

Non-Traditional Therapeutics that Limit Antibacterial Resistance

Letters of intent due Jan. 23, application by Feb. 23

The National Institute of Allergy and Infectious Diseases seeks early-stage translational research focused on non-traditional therapeutics providing alternative treatment for infected patients and increasing antibiotic resistance. Details [here](#).

Ebola Virus Computing

Deadlines vary

Among topics of particular interest to NSF's Division of Advanced Cyberinfrastructure are software development activities like those that would be funded by Computational and Data-Enabled Science and Engineering (details [here](#)). Click [here](#) for the Software Structure for Sustained Innovation RFP. Read the Nov. 13 Dear Colleague letter [here](#).

NSF Earth Sciences: Instrumentation and Facilities

Proposals accepted anytime

Minesto's Deep Green power plant recently became the first identified marine power plant to generate electricity from low velocity currents.

"The importance of (working in deep ocean currents) is that we can have a stable renewable source producing electricity into the grid, Susan Skemp, SNMREC Director, told power-technology.com.

The collaboration marks ... [READ MORE](#)

Leading FAU Researcher Calls for Greater Oceanic Research



The Earth should be called Planet Ocean, Shirley Pomponi, Ph.D., told a capacity audience at a recent Institute for Human and Machine Cognition (IHMC) public lecture in Ocala. Pomponi is Executive Director of the National Oceanic Atmospheric Administration-funded Cooperative Institute for Ocean Exploration, Research, and Technology at FAU Harbor Branch.

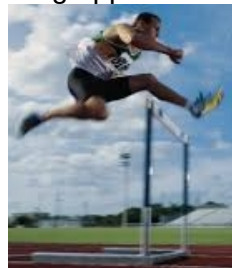
"The oceans cover more than 70 percent of the Earth's surface, yet only about 5 percent has been explored," Pomponi said. "The oceans contain 95 percent of the life on Earth."

Pomponi called for an expansion of oceanic research through the use of robotic submersibles and near real-time website broadcasts of submersible activity, which could include "perhaps hundreds" of scientists in a given research expedition.

The talk was part of an award-winning series sponsored by IHMC, a technical research organization. Read more [here](#).

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Major funding areas are the acquisition or upgrade of research equipment, development of new instrumentation or software, support of national or regional mini-user facilities and support for early career investigators. Download the solicitation [here](#).

More Funding Opportunities

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