e-News Updates from the PSIEE listserv!

News Highlights and Announcements (View all news)

**Penn State receives more than $129 million to lead energy team**
Penn State researchers will receive $129 million over the next five years from several federal sources, including the Department of Energy (DOE), and an additional $30 million from Pennsylvania to develop ways to make buildings more energy efficient.

**Penn State named ACORE Member of the Month**
In recognition of Penn State’s long-standing commitment to developing alternative fuels, their interest in alternative fuel vehicles, and devotion to energy efficiency, The Pennsylvania State University is ACORE’s newest member of the month.

**Johnson named Vice President**
Peggy Johnson has been named the 2010-2011 Vice President of the Environmental and Water Resources Institute (EWRI) of the American Society of Civil Engineers. Her term as Vice-President will commence on October 1, 2010, and will extend through September 30, 2011.

**Fall EarthTalks Focuses on Resilience and Adaptation**
“Embracing Change: Resilience and Adaptation in Turbulent Times” is the theme for the 2010 EarthTalks seminar series with scientists, policy makers and practitioners from across the nation and abroad joining Penn State faculty in discussions on visions for a more sustainable and equitable future. The 13-week series takes as a starting point that human activities are impacting ecosystems and climate in unprecedented ways and threatening the various resource bases that sustain both human and ecological well being. [View Schedule].

**ARS research on the Chesapeake Bay featured in August issue of Agricultural Research**
The University Park Agricultural Research Service (ARS) team has been able to work in all the major physical and geographic regions of the Chesapeake Bay Watershed by developing a six-state network of collaborators. Their work is featured in the article “There's More Than One Way To Save the Bay”

**Summer issue of The Iron online**
The summer issue of The Iron, the Industrial Research Office Newsletter is available online.

**Penn State launches new education, research center on Marcellus Shale**
Penn State announced today (Aug. 18) the formation of an education and research
initiative on the Marcellus Shale to work with state agencies, elected officials, communities, landowners, industry and environmental groups to protect the Commonwealth’s water resources, forests and transportation infrastructure while advocating for a science-based and responsible approach to handling the state’s natural gas deposits.

**Marcellus Center for Outreach and Research Seed Grants Awards Announced**

Research on the human/societal impacts and environmental topics is underway by six interdisciplinary teams of Penn State researchers through a seed grant program sponsored by the Social Science Research Institute (SSRI) and Penn State Institutes of Energy and the Environment (PSIEE) in conjunction with the Marcellus Center for Outreach and Research.

**Huge challenges in scaling up biofuels infrastructure**

Ramping up biofuels production to replace fossil fuels and provide a significant portion of the nation's energy will require nothing short of a transformation of the U.S. agricultural, transportation and energy sectors in the next few decades, according to a bioenergy expert in Penn State's College of Agricultural Sciences.

**Lewis Katz Building wins accolades for design**

Penn State Law's Lewis Katz Building, designed by Ennead Architects of New York (formerly Polshek Partnership), has received honors from the Society of American Registered Architects New York Council (SARA NY), the Society of American Registered Architects Pennsylvania Council (SARA PA) and the highest, Platinum rating from the College Designer Collabetition Awards for design excellence.

**Penn State researchers ‘whet’ teen students' interest in water cycle**

A dry streambed in a small wooded valley near Penn State's Stone Valley Recreation Area became a “living” laboratory Wednesday (Aug. 18) for a group of State College Area High School students getting an early taste of earth science.

**Aquatic invaders can topple plant and fish populations in Northeast**

The introduction of species like "Frankenfish" or "Rock Snot" into Pennsylvania waters doesn't sound pretty, and it's not. These are just two of the more colorful nicknames for aquatic invaders, but the innocent-sounding ones -- such as parrot feather or water chestnut -- also have the capacity to spell doom for some local ponds and streams.
Video: Community garden highlights the urban side of green
A community garden in the Allison Hill neighborhood of Harrisburg, Pa., is set to become part of Carver’s Secret Garden. Carver’s Secret Garden is a 4-H educational outreach program of Penn State’s College of Agricultural Sciences. The program was initiated by Dauphin County Cooperative Extension to address the specific needs of urban and inner-city youth.

DOE Turbines Workshop slated for Oct. 19-21
The DOE University Turbines Research Program 2010 Workshop will be held at the Nittany Lion Inn on Oct 19-21, 2010. The workshop is open to the public and will bring together experts from academia, industry and government to present and discuss ongoing turbine research in the areas of combustion, materials, and aerodynamics/heat transfer, with a focus on advanced syngas and hydrogen turbine systems. No fee to attend but registration is required. Please contact Dom Santavicca at das8@psu.edu for more information.

Green Energy, Green Buildings, Green Manufacturing Conference Call for Papers
This November, North Carolina A&T State University will host the First International Conference on Green and Sustainable Technology: Research and Workforce Development. The conference will be held on Thursday November 18 and Friday November 19 at the Proximity Hotel in Greensboro, NC. Deadline to submit papers is September 15, 2010.

Lake Superior National Estuarine Research Reserve Manager
This position will manage a multi-disciplinary staff of professionals with expertise in coastal ecology, natural resource management, research and laboratory operations, interdisciplinary curriculum development, and natural resource education and outreach.

Select Campus Events (View all calendar of events) | (View all 324)

Mireya Mayor, Explorerer and Wildlife Expert
Mireya co-discovered a new species of mouse lemur in Madagascar! She has been seen on the Discovery Channel, National Geographic, and the History Channel. And to top it off, she is a Fulbright Scholar and former Miami Dolphins cheerleader! Scheduled for Wednesday September 8th at 7:30 p.m. in 101 Agricultural Sciences and Industries Building.
Divemaster, cave diver, and Bahamian Nikita Shiel-Rolle to speak on campus
She will speak on Monday September 13th at 4:00 p.m. in 301 Steidle. For more information contact Jennifer Macalady, jlm80@psu.edu, 865-6330.

Panel Discussion - "Plastics, Pesticides, and Pharmaceuticals: Understanding the Potential Health Risks to Ourselves and Our Children"
Did you know that many plastics, pesticides, and pharmaceuticals contain harmful chemicals such as BPA that can disrupt our hormone systems? What are these harmful chemicals and how can we protect ourselves and our children from them?

Penn State Bioenergy Short Course Series 2010: Cellulosic Supply Chains for Bioenergy
One Day Short Course will be held at the Penn Stater Hotel and Conference Center on 11 November, 2010. Registration fee.

September 3, 2010
- Entomology Seminar
  Tracy Langkilde, "Stress and Invasion: Factors influencing the escape behavior of native fence lizards in response to introduced fire ants"
  11:15 a.m. - 12:05 p.m.; 107 Forest Resources Building

September 7, 2010
- Architectural Engineering Seminar Series
  Steve Rowlinson, University of Hong Kong, "The Times are Changing Real Estate & Construction in China"
  12 - 1:00 p.m.; 107 Engineering Unit B

September 8, 2010
- Wildlife Society Student Chapter Seminar
  Mireya Mayor, Explorerer and Wildlife Expert
  7:30 p.m.; 101 Agricultural Sciences and Industries Building (View Mayor's website)

September 9, 2010
- Geosciences Colloquium
  Charles Ammon, "Great Earthquake Interactions"
  4:00 p.m.; 22 Deike Building
September 10, 2010

- **School of Forest Resources Fall Seminar Series**
  Tracy Langkilde, *Stress and Invasion: Factors influencing the escape behavior of native fence lizards in response to introduced fire ants*
  12 - 1:00 p.m.; 105 Forest Resources Building

- **Plant Pathology Seminars**
  12:20 p.m.; 112 Buckhout Laboratory

September 13, 2010

- **Plant Pathology Seminars**
  Nina Shishkoff, USDA, *Sudden Oak Death: The Risk to Eastern Forests*
  3:30 p.m.; 112 Buckhout Laboratory

- **Earth Talks**
  Suzanne Moser, Union of Concerned Scientists, *Americans Embracing Climate Change? - Resistance and Engagement Opportunities in the Land of the Free*
  4:00 p.m.; 112 Walker Building

- **Nikita Shiel-Rolle, University of Miami**
  4:00 p.m.; 301 Steidle Building

September 14, 2010

- **Biology Seminar**
  Tom Schoener, UC Davis, *The Newest Synthesis: Evolution & Ecology = EvoEco*
  4-5:00 p.m.; 8 Mueller Lab

- **Distinguished Lectures in Life Science**
  Angela McLean, University of Oxford, *Measuring immunity from virul evolution*
  4:00 p.m.; 100 Life Sciences (Berg Auditorium)

Select Funding Opportunities ([View 55 recent announcements](#) | [View all open 265 funding announcements](#))

- International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (November 5)
- Conservation Reserve Program - Technical Assistance Training (September 30)
- Alliances for Graduate Education and the Professoriate (November 23)
• Revolutionary Genome Sequencing Technologies - The $1000 Genome (October 19)
• 4-H Military Partnership: 4-H Army Youth Development Project (September 7)
• Jefferson Science Fellows Program (January 14)
• Ford Foundation Fellowship Program (November 8)
• National Academies Research Associateship Programs (November 1)
• Fiscal Year 2011 Office of Naval Research Young Investigator Program (December 22)
• Transforming STEM Learning (March 11)
• Advancing Digitization of Biological Collections (December 10)
• Graduate Research Fellowship Program - Interdisciplinary Fields of Study (November 15)
• Graduate Research Fellowship Program - Engineering (November 16)
• Graduate Research Fellowship Program - Chemistry; Physics and Astronomy (November 18)
• Graduate Research Fellowship Program - Life Sciences (November 22)
• Graduate Research Fellowship Program - Social Sciences; Psychology; Geosciences (November 19)
• Energy Production with Innovative Methods of Geothermal Heat Recovery (October 1)
• Indoor Environments: Reducing Public Exposure to Indoor Pollutants (October 18)
• National Oceanographic Partnership Program and Interagency Committee on Ocean Science and Resource Management Integration (November 23)
• Fundamental Research Program for Industry/University Cooperative Research Centers (February 2)
• Planning Grant for Global Infectious Disease Research Training Program (November 2)
• Exceptional, Unconventional Research Enabling Knowledge Acceleration (EUREKA) (October 21)
• Mineral Resources External Research Program (September 27)
• Assessment of aspen ecosystems on public lands for the 21st century (September 15)
• Emerging Frontiers in Research and Innovation (October 4)
• Arctic Research Opportunities (November 10)
• Opportunities for Enhancing Diversity in the Geosciences (OEDG) (October 1)
• Global Infectious Disease Research Training Program (November 2)
• Validation and Field Testing of New Tools for Characterizing the Personal Environment (October 21)
• Validation and Field Testing of Novel Biomarkers of Response to Environmental Stressors (October 21)
• Economics of Prevention (October 26)
• Research to Understand and Inform Interventions that Promote the Research Careers of Students in Biomedical and Behavioral Sciences (October 15)
• East Asia and Pacific Summer Institutes for U.S. Graduate Students (November 10)
- **ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers** (November 4)
- **CERCLA Research Cooperative Agreement** (September 16)
- **FY2011 MURI - For Submission to Air Force Office of Scientific Research** (December 7)
- **Fiscal Year (FY) 2011 Department of Defense Multidisciplinary Research Program of the University Research Initiative - For Proposal Submission to the Army** (December 7)
- **People's Garden School Pilot Program** (November 8)
- **Impact of Galvanic Corrosion on Lead Release Following Partial Lead Service Line Replacement** (October 1)
- **Barry M. Goldwater Scholarship** (January 31)
- **Faculty Scholars Program in Bioethics** (November 1)
- **Burroughs Wellcome Fund: Career Awards for Medical Scientists** (October 1)
- **Burroughs Wellcome Fund: Investigators in the Pathogenesis of Infectious Disease** (November 1)
- **Camille Dreyfus Teacher-Scholar Awards Program** (February 10)
- **Senior Scientist Mentor Program** (November 11)
- **ACS Award for Encouraging Women into Careers in the Chemical Sciences** (November 1)
- **ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences** (November 1)
- **Washington Center for Internships and Academic Seminars - Internships at Nonprofits** (September 27)
- **2011 Kauffman Foundation Postdoctoral Entrepreneur Awards Call for Nominations** (September 27)
- **Argonne National Laboratory Named Postdoctoral Fellowship Program** (November 8)
- **Bioengineering Nanotechnology Initiative [SBIR]** (December 5)
- **Postdoctoral Fellowships in Polar Regions Research** (October 18)
- **Metals and Metallic Nanostructures** (October 31)
- **Continental Dynamics** (November 15)
- **Dynamics of Coupled Natural and Human Systems** (November 16)

**Special Funding Announcements**

**2011 NERRS Graduate Research Fellowship Program**
NERRS anticipates 27 openings for master's degree students and Ph.D. candidates at 20 National Estuarine Research Reserves (NERRs). [View flyer](#).

**NSF Major Research Instrumentation (MRI) Program: Instrumentation Development and Acquisition**
In anticipation of the next solicitation for the NSF Major Research Instrumentation program, the
OVPR is encouraging faculty to begin considering the program and to be prepared for the internal downselect process. They anticipate the program to continue to be a limited submission and will begin the downselect process as soon as the updated solicitation is published. They will follow up as information becomes available. Faculty can also refer to the following website for updates https://limitedsubs.vprsrch.psu.edu/limitedsubsapps.html.

**WUN Research Development Funds**
The Worldwide Universities Network (WUN) has announced the 2010-2011 WUN Research and Development Fund competition that offers grants of up to £15,000 (or $23,445 at an exchange rate of 1£ = $1.563) from an overall fund of up to £200,000 to support research collaborations in the following five WUN Global Challenges Categories: *Adapting to Climate Change, Understanding Cultures, Opportunities and Challenges of Globalization, Global Health, and New Frontiers in Information and Communications Technology*. Penn State is permitted to be the lead on three proposals, and therefore, the OVPR is conducting a downselect to determine the three most appropriate proposals to send forward. If a faculty team in your college/unit plans to submit a PSU-led proposal for the internal downselect, please ask them to complete an online notice-of-intent by **October 15, 2010** at: https://limitedsubs.vprsrch.psu.edu/letterofintent.html.

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**We welcome your input!**
In order to make this listserv useful for our subscribers, we appreciate your feedback! Please send your comments/suggestions to Patricia Craig at plc103@psu.edu or Betsy Grgurich at ebb14@psu.edu. Please use “listserv feedback” in the subject line. If you have information that you would like us to distribute please send that as well. Thanks!

Thank you for your continued interest in the Penn State Institutes of Energy and the Environment!
Best regards,
Patricia Craig