e-news updates from the PSIEE listserv!
Can also view as pdf online at: http://www.psiee.psu.edu/news/listservMessages.asp

News Highlights and Announcements

- **Crime rates unsettled in Marcellus Shale drilling areas, study finds**
  There are no definitive findings that Marcellus Shale drilling activity has affected crime rates in Pennsylvania, but more study is needed, according to a preliminary report conducted recently by the Justice Center for Research at Penn State.

- **Companies Contribute $50,000 to Support Sustainability Teaching Tools**
  Seven companies that are represented on the Sustainability Advisory Board at the Penn State Smeal College of Business have contributed $50,000 to support the development of teaching tools on business-related sustainability topics. These topics include the environmental, social, and economic impact of business decisions on a company, its employees, and the communities in which a company operates. The companies that contributed are Alcoa, Avon Products, DuPont, International Paper, PepsiCo, Siemens, and Verizon.

- **SAVE THE DATE – E.O. Wilson Keynote for Colloquium!**
  E.O. Wilson will speak on the University Park campus on Monday April 16, 2012 as part of the annual 8th annual Colloquium on the Environment speaker series. His talk "The Social Conquest of Earth" is scheduled for 5:30 p.m. in 100 Thomas Building. A book signing and reception will immediately follow his lecture. Event is free and open to the public.

- **PSIEE is requesting all interested researchers to PLEASE SEND SUBMISSIONS** for our “Research Photo Spotlight” section on the PSIEE website. All we need is a photo, short description of the photo, photo credit, short summary of research the photo is representing, and related links (if any). Please see Research Photo Spotlight Archives for examples of previously submitted research photos and information.

- **Ph.D. Defenses Friday February 24, 2012**
  This Friday, February 24, JB Moon and Kristen Granger will defend their Ph.D. dissertations. The public is welcome to attend the presentation. You are invited to attend the following:
  - **Jessica B. Moon**, "Linkages between wetland condition and microbial habitats, their heterogeneity, and associated microbial communities in the Ridge and Valley Region of Pennsylvania," 9 a.m. in 319 Walker Bldg.
  - **Kristen Granger**, "Mitigation of drought-induced reductions in wild oat seed quality by elevated carbon dioxide," 2:30 p.m. in 501 Agricultural Sciences and Industries Building.

- **Free Registration for Afternoon Sessions at Bioenergy Symposium: Pathways to the Future - Short Rotation and Perennial Crops**
  Symposium will be held on February 29, 2012 in the Heritage Hall, HUB-Robeson Center. Afternoon and poster session are fee to attend; cost for Penn State Faculty/Staff/Students to attend all day is $25. Afternoon schedule: 1:30 Understanding Lignocellulose Structure and Formation for the Next Generation of Biofuels talk by Daniel Cosgrove; 2:15 Roundtable Discussion; 3:00 Poster Session and Judging and 4:30 Close. To register,
send name, address, phone number and email to Sandy Maitland (slm30@psu.edu). Penn State Students interested in participating in the poster session/competition need to send their intent to participate along with a poster title to Daniel Ciolkosz (dec109@psu.edu) by 5PM Friday, February 24, 2012.

Select Campus Events (from Feb. 24 through Mar. 2, 2012)

February 24, 2012

- **School of Forest Resources Seminar**
  Eric Burkhart, Shaver's Creek Environmental Center, *The Deep and Tangled Roots of Pennsylvania’s Ginseng Industry*
  12:30-1:30 p.m.; 104 Forest Resources Building

Saturday February 25, 2012

- **Lectures on the Frontiers of Science - Food: Strategies for Growing Enough for Everyone**
  Jonathan Lynch, *Roots of the Second Green Revolution*
  11:00 a.m.; 100 Thomas Building

February 27, 2012

- **Plant Biology Seminar**
  Joe Louis, *Molecular basis of plant defense against insects*
  12:10 p.m.; 108 Wartik Laboratory

- **Plant Pathology Seminars**
  Christine Smith, Lambert Spawn, Inc., *Spawn Research and Production: Swimming Upstream Against a Strong Current*
  3:35-4:35 p.m.; 112 Buckhout Laboratory

- **BMB Seminar Series**
  Joseph Marcotrigian, Rutgers University, *Replication of RNA Viruses and the Innate Immune Response*
  4:00 p.m.; 101 Althouse Laboratory

- **Ecology Seminar**
  David Wolfe, Cornell University, *Transforming ecosystem and farm management for a changing climate*
  4:00 p.m.; 112 Borland Building

- **Earth Talks Series - Electronic Media and Environmental Science: e-Education to e-Data**
  Tim Spangler, COMET, *The COMET Program: Resources for Innovative University Instruction and the Evolution of e-learning*
  4:00 p.m.; 112 Walker Building

February 28, 2012

- **Mechanical and Nuclear Engineering Seminar**
  Michael Foust, General Electrical Aviation, *Development of the GE Aviation Low Emissions TAPS Combustor for*
Next Generation Aircraft Engines
4:00 p.m.; 135 Reber Building

- Biology Seminar Series
  Helen Salz, Case Western Reserve University, "Sex determination in Drosophila: a binary decision controlled by RNA binding proteins"
  4:00 p.m.; 8 Mueller Laboratory

- Geosciences Colloquia
  Neyda Abreu, Penn State Dubois, "Fossils from a Collapsing Protoplanetary Disk: Mineralogical and Petrological Studies of Primitive Carbonaceous Chondritic Meteorites"
  4:00 p.m.; 22 Deike Building

February 29, 2012

- Earth and Mineral Sciences Library Spring Film Series
  "The History of Science: Can We Have Unlimited Power?"
  (Reveals how wind, solar, and atomic energy is harnessed today and how these sources might be used in the future)
  12:15 p.m.; 105 Deike Building

- Meteorology Seminar Series
  Dong Wu, NASA, "Clouds and Climate: A Long-Standing Challenge for Remote Sensing from Space"
  3:30 p.m.; John J. Cahir Auditorium (112 Walker Building)

March 1, 2012

- Infectious Disease Dynamics Seminar
  Geraldo Chowell, Arizona State University, "Dynamics of the 2009 A/H1N1 influenza pandemic using high resolution surveillance data"
  11:00 a.m.; 203 Millennium Science Complex

- BMB Seminar Series
  Matthew Jennings, "Nucleosomal Recognition by Chromatin Enzymes RCC1/Ran and LSD1/CoREST"
  11:15 a.m.; 101 Althouse Laboratory

- Center for Environmental geoChemistry and Genomics (CECG) Wine and Cheese Reception
  Guest Speaker Janet Jansson, Lawrence Berkely National Laboratory
  4:30 - 7:30 p.m.; Nittany Lion Inn Fireside Room | Please RSVP to Debra Lambert (dql6@psu.edu)

March 2, 2012

- Marcellus Center for Outreach and Research Seminar
  Chuck Ammon, "An Introduction to Induced and Triggered Earthquakes"
  Noon - 1:00 p.m.; 117 Earth Engineering Sciences Building

- School of Forest Resources Seminar
  Dani Sarsekova, Department of Kazakhstan National Agricultural Institute, Republic of Kazakhstan, "Forest and
Highlighted Conferences

- **2012 International SWAT Conference & Workshops - July 16-20, 2012, New Delhi, India**
  The Conference has become the most important annual gathering for experts and institutions in the field of river basin management. The Soil and Water Assessment Tool (SWAT) is a public domain, river basin-scale model used to simulate the quality and quantity of surface and shallow ground water and predict the environmental impact of land management practices on different soil patterns and land use patterns. Abstract submission deadline: March 1st, 2012 Paper submission deadline: April 15th, 2012.

- **Fourth International Conference on Climate Change: Impacts and Responses**
  The conference will be held at the University of Washington, Seattle, Washington, USA from 12-13 July 2012. Deadline to submit papers is March 13, 2012.

Select Job/Research Opportunities

- **Penn State – assistant/associate professor of wildlife management and conservation/population ecology** (March 18)
- **DOE - Petroleum Engineer** (March 7)
- **Bureau of Reclamation - Regional Director, Lower Colorado Region** (March 22)
- **EPA - Supervisory Physical Scientist/Biologist/Microbiologist/Ecologist** (March 16)
- **Assistant Professor of Bioclimatology, University of Montana** (March 14)
- **Assistant Professor of Physical Oceanography, Coastal Carolina State** (March 31)

FYI…PSIEE maintains a list of resources with more than 140 links to career planning/employment listing sites. Please view our Career Planning Resources page.

Highlighted Funding Opportunities *(View all 33 recent funding announcements)*

- **Energy Innovation Hub - Batteries and Energy Storage** (March 1)
- **Multidisciplinary University Research Initiative: High Operating Temperature Fluids** (April 19)
- **Bridging Research Interactions through Collaborative Development Grants in Energy (BRIDGE)** (May 21)
- **Advanced Oxy-combustion Technology Development and Scale-up for New and Existing Coal-fired Power Plants** (April 17)
- **Interregional Research Project #4 Minor Crop Pest Management Program** (IR-4) (March 20)
- **National Sea Grant College Program Special Projects** 2012 (June 30)
- **National Geospatial-Intelligence Agency Academic Research Program** (Sept. 30)
- **Reduction of Tropical Cloud and Precipitation Biases in Global High Resolution Models** (March 30)
- **Great Lakes Restoration Initiative Endangered Species Recovery** (March 16)
- **EPA Region 3 Wetland Program Development Grants** (April 2)
- **Anthropogenic Influences on Organic Aerosol Formation and Regional Climate Implications** (May 3)
- **Anthropogenic Influences on Organic Aerosol Formation and Regional Climate Implications, Early Career** (May 3)
- **Regional Indoor Environments: Reducing Public Exposure to Indoor Pollutants** (April 12)
Request for Information

**Fuel Cell Technologies Early Market Opportunities Deadline March 2, 2012**

The Department of Energy (DOE) seeks feedback from stakeholders for technology deployment activities aimed at verifying the commercial readiness of fuel cell and hydrogen technologies, consistent with DOE’s on-going efforts and mission. Areas of interest include the following:

**Area of Interest 1: Innovative, Commercially Ready Fuel Cell Systems for Specific Applications**

- **Subtopic 1A: Auxiliary Power Units (APUs) for Refrigerated Trucks**
- **Subtopic 1B: Fuel Cell Recharging Systems for All-Electric Light- or Heavy-Duty Trucks**

**Area of Interest 2: Technology Deployment Projects for Other On- or Off-Road Transportation Markets**

The purpose of this Request for Information (RFI) is to gather feedback from stakeholders prior to DOE potentially issuing a Funding Opportunity Announcement (FOA).

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**NEW SUBSCRIBERS**

If you know of others that may be interested in joining this listserv, they can join by sending an e-mail to: **L-PSIEE-subscribe-request@lists.psu.edu** - no subject or message text is required. The system picks up the name and address from the e-mail headers.

**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**. Please use “PSIEE listserv” 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