NEWS HIGHLIGHTS

**PSIEE-sponsored Environmental Inquiry Minor to host fall meeting on Nov. 5**
The Fall Semester 2012 Meeting will be on Monday, November 5th from 7pm to 8pm in the Stuckeman Family Building jury space (large open area on ground floor). Meeting is for all students currently enrolled and for anyone interested in learning more about the Environmental Inquiry. Join us for pizza and important information about the minor.

**Klaus Keller: NSF awards $11.9 million for Sustainable Climate Risk Management**
An interdisciplinary team of scholars received an $11.9 million award from the National Science Foundation to support the establishment of a multi-institution research network on Sustainable Climate Risk Management strategies. As part of NSF’s Sustainability Research Networks initiative, this network is centered at Penn State and spans nine additional U.S. universities and research institutes. PSIEE co-hire Klaus Keller is the lead PI on the project. Other Penn Staters on the project are Chris Forest, Department of Meteorology, and Karen Fisher-Vanden, Department of Agricultural Economics, Sociology and Education.

**Tom Richard: $10M grant will fund research into biofuel-based economic development**
The Northeast could help lead the way to a renewable-energy-based economy by utilizing marginal and abandoned land to grow energy crops such as perennial grasses and fast-growing woody plants. Tom Richard, director of PSIEE, is the lead PI. See NEWBio website for other Penn State participants.

**Five teams reach finals in Sustainability Innovation Student Challenge**
Five teams of graduate students have been selected as finalists in the Dow-sponsored Sustainability Innovation Student Challenge Award (SISCA) at Penn State. The program recognizes and rewards students and universities for innovation and research of sustainable solutions to the world’s most pressing social, economic and environmental problems. Read more Sustainability-related news.

**Tomorrow October 31 is deadline to enter giveaway**
PSIEE plans to expand its use of social media in order to provide timely updates on energy and environmentally-related news and announcements. We invite you to follow us on social media. You can either "Follow PSIEE" on Twitter or "Like" us on Facebook. We will compile a list of all new followers and they will be entered in a drawing to win one of five Philips 10 watt light bulbs – a replacement for a standard 60-watt bulb. Promotion is in no way sponsored, endorsed or administered by, or associated with, Facebook.

**FEATURED UPCOMING CONFERENCES**

**Allegheny Branch of the American Society for Microbiology (ABASM)**
Mary Ann Bruns, associate professor of soil microbiology, is president of the ABASM and is organizer of the annual meeting. Meeting will be held Nov. 9-10, 2012 at the Days Inn in State College, PA. Students may submit titles for posters
Ferran Garcia-Pichel from Arizona State University will give an open lecture in 252 Food Science at 10 a.m. on Friday, Nov. 9 titled “Dealing with the Sun’s Worst Side: Biochemistry, Genetics and Ecology of Microbial Sunscreens.” His keynote address on Friday night will be “Microbial Adaptations in Biological Soil Crusts, Earth’s Most Extensive Biofilms.”

**Call for Abstracts: Pennsylvania Groundwater Symposium**

In celebration of National Drinking Water Week, Penn State Extension’s Master Well Owner Network and the Pennsylvania Department of Environmental Protection invite you to submit an abstract to participate in the 2013 Pennsylvania Groundwater Symposium. The symposium will be held on May 8, 2013 at Penn State University in University Park, PA. The symposium will showcase groundwater research and outreach being conducted by faculty, students, and professionals throughout Pennsylvania. This year’s symposium theme is Emerging Issues in a Changing Landscape. Abstract Deadline is December 3, 2012

**Farming for the Future Conference**

PASA’s (Pennsylvania Association for Sustainable Agriculture) annual *Farming for the Future* Conference is PASA's signature event and our main vehicle for community building. Widely regarded as the best of its kind in the East, this event brings together an audience of over 2,000 farmers, processors, consumers, students, environmentalists and business and community leaders annually. Conference will be held February 6-9, 2012 in State College, PA.

**Annual Meeting: Society for Freshwater Science**

Conference will be held in Jacksonville, FL from May 19-23, 2013. The conference theme is “Energy production and aquatic biodiversity: Understanding the threats, planning for ecosystem management.”

(View all 215 open conferences)

**FEATURED EVENTS CALENDAR**

**October 31, 2012**

- **SCRiM Monthly Seminar Series**
  Klaus Keller, "The Network for Sustainable Climate Risk Management (SCRiM): An Overview"
  12:00 p.m.; 301 Steidle Building (lunch provided)

- **EMS Library Film Series Fall 2012**
  **Film: Tar Creek** (54 min)- A 100 year history of Tar Creek, a Superfund Site damaged by zinc and lead mining
  12:15 p.m.; 105 Deike Building

- **Energy & Environmental Economics and Policy Seminar Series**
  Qin Fan, "Regional Economic Impacts from Climate Change-Induced Migration in the US"
  12:30 p.m.; 215 Armsby Building (lunch provided)

- **Ecology Master’s Defense**
  1:00 p.m.; 217 Forest Resources Building
November 1, 2012

- **Ecology Seminar**
  Travis Robbins, *Fence lizards as predator and prey: behavioral adaptations to fire ant invasion*
  3:00 p.m.; 105 Forest Resources Building

- **Meteorology Colloquia**
  Morris Weisman, NCAR, *The 8 May 2009 "Super Derecho": Analysis of a 3 km WRF-ARW Realtime Forecast*
  3:30 p.m.; 112 Walker Building

November 2, 2012

- **MatSE 590 Seminar Series**
  Ronald Jones, National Institute of Standards and Technology (NIST). *Neutrons for Soft Materials manufacturing: Measuring the Next Level of Structural and Rheological Complexity*
  9:45 a.m.; 26 Hosler Building

- **Center for Infectious Disease Dynamics Seminar**
  Britt Koskell, University of Exeter, *Host-pathogen coevolution under ecological time scales in nature*
  11:00 a.m.; 203 Millennium Science Complex

- **Nuclear Engineering Seminar Series**
  Kurt Terrani, Oak Ridge National Laboratory, *Title TBA*
  4:00 p.m.; 135 Reber Building

- **John Snow Biomedical Seminars**
  Scott Selleck, *A New Model for Understanding Neurodevelopmental Disorders in Children — Genomic Instability and Autism Spectrum Disorder*
  5:15 p.m.; Berg Auditorium (100 Life Sciences)

- **Educational Theory and Policy Film Series**
  Film: *Home*
  Discussant: Chris Staley, Professor of Art, PSU
  7:35 p.m.; 112 Kern Building

November 5, 2012

- **Entomology Seminar**
  Michael Goodisman, Georgia Tech, *Molecular evolution and sociality in insects*
  11:15 a.m. - 12:15 p.m.; 107 Forest Resources Building

- **Geography Coffee Hour**
  Burt Monroe, *Legislative speech and geographic representation*
  4:00 p.m.; 112 Walker Building

November 8, 2012

- **Plant Biology Seminar**
  Charles Anderson, *Rising above the crowd: identification of wall-related genes that confer enhanced growth in Arabidopsis thaliana*
  12:10 p.m.; 108 Wartik Laboratory
**Plant Pathology and Environmental Microbiology Seminar**  
Christopher Gee, Penn State Erie, Behrend College, *"Mutation of the 7-pass transmembrane receptor mlo in grapevine modulates susceptibility to powdery mildew"*  
3:35 p.m.; 112 Buckhout Laboratory

**Fall 2012 EarthTalks Seminar Series: PSU "Talks" on Water**  
Li Li, assistant professor of energy and mineral engineering, *"Water-rock interactions: what is the role of geochemical hot spots?"*  
4:00 p.m.; 112 Walker Building

**Environmental Inquiry Minor Fall 2012 Meeting**  
7 - 8:00 p.m.; Stuckeman Family Building Jury Space (large open area on ground floor)  
Pizza provided!

**November 7, 2012**

**EMS Library Film Series Fall 2012**  
*Film: The Biofuel Myth: Harsh Realities in the Developing World* (44 min)- Once considered a sustainable energy source, some biofuels are now seen as exploitative and environmentally harmful  
12:15 p.m.; 105 Deike Building

**Ecology Seminar**  
Mac Burgess, *"Cover crop diversity and ecosystem services: From the northern Great Plains to the mid Atlantic"*  
3:00 p.m.; 105 Forest Resources Building

**Meteorology Colloquia**  
Jasper Kok, Cornell University, *"Dust shatters like glass: implications for the climate forcing of mineral dust aerosols"*  
3:30 p.m.; 112 Walker Building

**November 8, 2012**

**MatSE 590 Seminar Series**  
Rodney Priestly, Princeton University. *"Deposition of Nanostructured Glassy Polymer Films"*  
9:45 a.m.; 26 Hosler Building

**Center for Infectious Disease Dynamics Seminar**  
Christina Grozinger, *"Systems level analysis of honey bee health: from genes to landscapes"*  
11:00 a.m.; 203 Millennium Science Complex

**Chemical Engineering Seminar**  
Shawn D. Lin, National Taiwan University of Science and Technology, *"CuNi Catalysts for Ethanol Steam Reforming"*  
11:15 a.m. - 12:30 p.m.; 102 Chemistry Building

**Nuclear Engineering Seminar Series**  
Jeffrey King, Colorado School of Mines, *"Title TBA"*  
4:00 p.m.; 135 Reber Building

**November 9, 2012**
• **Allegheny Branch of the American Society for Microbiology Talk**  
  Ferran Garcia-Pichel, Arizona State University, *"Dealing with the Sun's Worst Side: Biochemistry, Genetics and Ecology of Microbial Sunscreens"*  
  10 a.m.; 252 Food Sciences Building

• **Discovery-U: Where Genius Meets Imagination**  
  10:00 a.m. - 2:45 p.m.; HUB-Robeson Auditorium

• **Entomology Seminar**  
  Peter Teak, USDA ARS, *"Semiochemical-based attraction of small hive beetle: a window into evolution and invasive biology"*  
  11:15 a.m. - 12:15 p.m.; 107 Forest Resources Building

• **Geography Coffee Hour**  
  Kristi Gibson, *"Title TBA"*  
  4:00 p.m.; 112 Walker Building

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**FEATURED EMPLOYMENT OPPORTUNITIES**

- University of Oklahoma: Assistant Professor of Energy and Environment (Dec. 7)
- US Fish and Wildlife Service: Senior Executive Service - Assistant Director for Fisheries and Habitat Conservation (Nov.2)
- USDA Foreign Agricultural Service: Global Climate Change Specialist: Economics and Markets (Nov.2)
- Department of Energy: Director, Physics Research Division (Nov. 23)

**RECENT FUNDING OPPORTUNITIES**  
[(View all 51 recently added announcements)](https://example.com)

- Greenwall Foundation: Faculty Scholars Program in Bioethics (Nov. 1)
- ACS Petroleum Research Fund: Doctoral New Investigator (Nov. 2)
- Grand Challenges in Global Health (Nov. 7)
- Dynamics of Coupled Natural and Human Systems (Nov. 20)
- NSF Science, Engineering and Education for Sustainability Fellows (Nov. 26)
- National Smart Growth Conference Planning Request for Proposals (Nov. 26)
- EPA Science To Achieve Results (STAR) Fellowships For Graduate Environmental Study (Nov. 27)
- EPA Greater Research Opportunities (GRO) Fellowships For Undergraduate Environmental Study (Dec. 5)
- Theoretical Elementary Particle Physics (Dec. 6)
- Water and Electric Utility Integrated Planning (Dec. 20)
- Performance and Effectiveness of Green Infrastructure Stormwater Management Approaches in the Urban Context: A Philadelphia Case Study (Jan. 8)
- Centers for Water Research on National Priorities Related to a Systems View of Nutrient Management (Jan. 15)
- Dynamics of Host-Associated Microbial Communities (Jan. 15)
- Nitrogen: Improving on Nature (NITROGEN) (Feb. 1)
- Science, Technology, and Society (Feb. 1)
- Atmospheric and Geospace Sciences Postdoctoral Research Fellowships (Feb. 2)
- Interdisciplinary Research in Hazards and Disasters (Hazards SEES) (Feb. 4)
- Biological Oceanography (Feb. 15)
Mentored Research Scientist Development Award in Metabolomics (Feb. 28)

(View all 210 funding announcements)

SPECIAL FUNDING ANNOUNCEMENTS

- **PAEP Scholarship application due Nov. 7, 2012**
  The Pennsylvania Association of Environmental Professionals (PAEP) is offering a $1,000 scholarship to any full time Pennsylvania undergraduate or graduate school student who is a U.S. citizen and considering a career in environmental science.

- The Pennsylvania Game Commission (PGC) and Pennsylvania Bureau of Forestry (BOF) have agreed to fund a 5-yr joint project to investigate the factors influencing forest vegetation conditions. In particular, the agencies are interested in determining (1) the performance of several potential indicators of deer browsing impacts, (2) effectiveness of DMAP in managing deer populations, and (3) the interaction of environmental factors that influence forest vegetation conditions and tree regeneration. This is not a deer study per se, but a study to investigate how various factors interact (e.g., deer browsing, competing vegetation, silvicultural treatments, etc.) and influence outcomes from deer and forest management decisions. Duane R. Diefenbach and Marc McDill would like to hold a meeting to provide more details about the project and how other researchers can become involved. In particular, this is the time where we can incorporate aspects of the vegetation monitoring that could provide information for projects that piggy-back on the primary objectives of this research. In addition, we have not identified anyone to take the lead on the human dimensions research opportunities. Please email Duane R. Diefenbach (ddiefenbach@psu.edu) or Marc McDill (mcdill@psu.edu) your interest in learning more about this project. We will then set up a meeting to share more information.

FOLLOW PSIEE ON SOCIAL MEDIA

For timely updates on energy and environmentally-related news and announcements, we invite you to follow PSIEE on Twitter or like us on Facebook.

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

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