

***SFI weekly newsletter (January 5, 2009)***  
***A weekly service of SFI***

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4. 2009 IEEE International Symposium on Technology and Society (ISTAS '09) May 18-20, 2009
5. Sustainable Innovation: Global Challenges and Opportunities
6. 2009 The 24<sup>th</sup> International Conference on Solid Waste Technology and Management
7. IAGLR '09 Call for Papers, May 18-22, 2009, University of Toledo, Ohio
8. Association of Colleges and Universities meeting in Seattle workshop January 21

*The weekly newsletters are now posted at our Website (<http://www.sfi.mtu.edu/>). In an effort to increase recognition and enhance SFI's image, we want to include more publicity about SFI member achievements. Please send announcements of your*

*publications, presentations, awards, and names of awarded proposals to Denise Heikinen at dmheikin@mtu.edu, or call (906)487-0044.*

## **SFI NEWS AND ANNOUNCEMENTS**

### **1. Auer Receives Volunteer Service Award from MAEOE**

SFI member Marty Auer (CEE) has received the 2008 Volunteer Service Award from the Michigan Alliance for Environmental and Outdoor Education.

Auer has participated in numerous activities to teach K-12 students about their environment and the Great Lakes over the past 10 years.

He was a member of the committee that developed the Michigan Environmental Education Curriculum Support Water Quality Unit and coordinated the development of 18 interactive web modules on the subjects "Energy Resources," "Ecosystems and Biodiversity" and "Water Quality" ( [http://techalive.mtu.edu/meec\\_index.htm](http://techalive.mtu.edu/meec_index.htm) ). He conducted two 10-day teacher institutes aboard the EPA's R/V Lake Guardian to share his passion for the Great Lakes with teachers, so that they in turn, could share it with their students, according to the MAEOE news release.

Auer has led scientific excursions aboard Michigan Tech's research vessel Agassiz for hundreds of K-12 teachers, students and the community. Auer is an inspiring educator, who mesmerizes his audiences with his passion for learning and deep love for the Great Lakes, according to the release. "Dr. Auer has had a tremendous impact on developing a better understanding of the Great Lakes amongst teachers, students and the community, and in inspiring our next generation of environmental scientists."

### **2. Chadde Named President of MAEOE**

Joan Chadde, K-12 education and outreach program coordinator for the Center for Science and Environmental Outreach at Michigan Tech, has been named the 2009 president of the Michigan Alliance for Environmental and Outdoor Education (MAEOE), a statewide organization whose mission is to promote environmental literacy through education.

"I am thrilled to have this opportunity to promote environmental education in Michigan," Chadde said. "All of Michigan's children should have the opportunity to experience outdoor play and discovery in their backyards, schoolyards, local parks and natural areas, and in the state's forests, grasslands, wetlands, lakes and streams."

Chadde is also the lead author of the Michigan Environmental Education Curriculum Support Water Quality unit for grades 6-8 students published by the Michigan Department of Environmental Quality.

MAEOE is comprised of 200 outdoor and environmental education professionals and organizations around Michigan. MAEOE's activities include advancing environmental and outdoor education by conducting pre-service and in-service teacher professional development workshops and an annual conference, serving as an environmental education clearinghouse, bestowing awards for excellence in environmental education, and working to develop a statewide Environmental Literacy plan. For more information about MAEOE, visit [www.michiganenvironmentaled.org](http://www.michiganenvironmentaled.org) .

### **3. ASEE PRISM article on sustainability engineering initiatives at US campuses available at SFI office (840 Dow)**

ASEE PRISM magazine featured an article on sustainability engineering initiatives at US campuses in the Summer 2008 issue. In fact, this issue features this subject on the cover. Reading this gives a good overview of educational initiatives at the graduate and undergraduate levels in the US. The issue can be borrowed from the SFI library in Room 840 Dow.

On another sustainability education front, the Center for Sustainable Engineering is going to issue a report on the current state of university - based sustainability education in the US. I'll forward that report when I receive it. Here is the website for this project. <http://www.csengin.org/>

#### **4. Important Info for NSF Award Applicants by Pete Larsen, manager, Michigan Tech Sponsored Programs Enhancement**

The Sponsored Programs Office would like to remind researchers that proposals submitted to the National Science Foundation are now subject to new guidelines, published in NSF Publication 09-1: Proposal Award Policies and Procedures Guide.

In particular, new guidance has been added to address the mentoring requirement of the America COMPETES Act. Any proposal that requests funding to support postdoctoral researchers must include a separate section within the project description that describes the mentoring activities that will be provided. The mentoring plan will be evaluated during the merit review process, under the Broader Impacts criterion. Proposals that do not include a separate section on mentoring activities within the Project Description will be returned without review. A summary of all significant changes to the new Grant Proposal Guide can be found here: [www.nsf.gov/pubs/policydocs/pappguide/nsf09\\_1/gpg\\_sigchanges.jsp](http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/gpg_sigchanges.jsp) . The complete new Proposal Award Policies and Procedures Guide can be found here: [www.nsf.gov/pubs/policydocs/pappguide/nsf09\\_1/index.jsp](http://www.nsf.gov/pubs/policydocs/pappguide/nsf09_1/index.jsp) . If you have questions about your submissions to the National Science Foundation, please contact the Sponsored Programs Office, 487-2226.

#### **5. Opportunity for SFI students to collaboration between Michigan Tech and Southern Florida**

Deadline: January 30, 2009

Please see the attached PDF (Bolivian Application\_2009) describing a new collaboration between Michigan Tech and Southern Florida. This is a new approach to the NSF-funded program described by several students at the last D80 Conference. This opportunity is available to undergraduate and graduate students in any engineering field (public health and anthropology students will be our partners from USF). An extremely good opportunity to "walk the talk" and get field research experience working on difficult sustainability challenges.

#### **SFI NEW FUNDING**

##### **SUSTAINABILITY NEWS**

##### **1. Village of Carney, Michigan, requests help with sustainability planning**

An engineer and member of a planning commission from the Village of Carney, Michigan, (in the UP, Menominee County near Wisconsin border) has contacted SFI asking for help developing plans to ensure sustainability for the community after a local mine leaves the area. He is interested in structuring the entire community so that it maintains economic, environmental, and social sustainability. Carney is not in a position to hire someone, but the situation might present possibilities for a class project, Enterprise, or other faculty/student project that could result in a publication. The village is considering forming a "charrette" (a sort of town meeting) to fire up the community about the possibility of economic development but is unsure about how to proceed. Please contact Dan Routhier if you can help them out. Some background information on the Village of Carney follows:

Population 225

poverty level is over 50%

Frigo Cheese, which employed 90-100 people, closed about 20 years ago.

Most people travel ~30-40 miles one way for work.

The School is the largest employer in town now.

Carney has a municipal water system, but does not have a municipal waste water treatment system.

The soil types are not very good for on-site septic drainfield systems.

The Health Department makes it very difficult to get septic permits, which is hindering any kind of development.

If interested please contact Daniel G. Routhier, P.E., DGR Engineering, LLC Suite C, 54 N. Highway U.S. 41 Carney, MI 49812 906.639.3122 <[dgreengineering@alphacomm.net](mailto:dgreengineering@alphacomm.net)>

##### **2 . UofM greens its IT system.**

University of Michigan is trying to make its computers green and has been spurred into action by a phone call from Google cofounder Larry Page. The campus-wide volunteer effort involves a number of initiatives designed to save hundreds of thousands of dollars. U-M has 80,000 desktop computers, half a dozen data centers and more than 100 server rooms. Teams of more than 90 U-M students, faculty and staff members are working to purchase more energy-efficient computers, reduce the number of server rooms and get everyone to turn off computers and printers when not in use.

### **3. MSU Statewide Biomass Feedstock Inventory to create an online GIS map**

Statewide Biomass Feedstock Inventory will be conducted by Michigan State University which has been awarded a \$114,000 grant by the Michigan Dept. of Energy, Labor, & Economic Growth. The inventory will look at the type, supply, location, and energy potential of biomass sources. This study will have the added benefit of creating an online GIS map through which businesses and others can locate the quantity of available biomass for energy production. The map will also takes into account key supply constraints which increases its effectiveness as a tool in the decision making process. With additional grant funds, MSU is also carrying out a project which identifies farms and other sites with strong potential for the installation of anaerobic digesters and energy recovery systems. Both projects are scheduled to be completed in the summer of 2009. Contact: Dr. Steve Safferman, MSU (517) 432-0812 [safferma@msu.edu](mailto:safferma@msu.edu) See also <http://www.wwj.com/UM-Computing-Centers-Say--Go-Green-/3595544>

### **4. Copper Country Habitat for Humanity ReStore**

Are unused building materials and home furnishings gathering dust in your home or garage? Don't dump them! Donate and Deduct them!

Copper Country Habitat for Humanity ReStore  
25971 Pine Street, Calumet, Michigan

Your donation furthers the cause of Habitat for Humanity and reduces landfill waste.

ReStore Drop Off Hours: Tuesday--Saturday 9:30 - 5:00, (906) 337-002, [ccrestore@pasty.net](mailto:ccrestore@pasty.net)

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## **SEMINARS**

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## **FUNDING & AWARD OPPORTUNITIES**

*(Heading 4) To submit research proposals through the Sustainable Futures Institute, add "SFI" to the DEPT/CENTER/INSTITUTE(S) column for identifying the PI's and co-PI's. The transmittal sheet must then be signed by the SFI Director, John Sutherland, on page 3. (If John Sutherland is unavailable for signing transmittal sheets, Qiong (Jane) Zhang can also sign for SFI). Submitting proposals under SFI provides wider publicity and recognition for your research as well as a 10% return on your incentive account.*

### **1. US Fish and Wildlife Service: Division of Bird Habitat Conservation**

The U.S. Standard Grants Program is a competitive, matching grants program that supports public-private partnerships carrying out projects in the United States that further the goals of the North American Wetlands Conservation Act (Act). These projects must involve long-term protection, restoration, and/or enhancement of wetlands and associated uplands habitats for the benefit of all wetlands-associated migratory birds.

Deadlines: 3/7/2008, 8/1/08

### **2. Royal Society of Chemistry (RSC) Environment, Sustainability and Energy Prize**

Deadline 1/30/2009

Award: £5,000

The prize is awarded for outstanding contributions to the chemical sciences in the area of environment, sustainability and energy. <http://fundingopps.cos.com/alerts/116301>

### **3. NSF International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (ICC)**

Deadline 1/30/2009

\$300K to \$1M

NSF seeks to enhance opportunities for collaborative activities between U.S. and foreign investigators from Germany, Austria, United Kingdom, China or France. The program seeks new and highly innovative 3-year collaborative projects that break new ground and demonstrate high level of synergy between the collaborating investigators. The proposed 3-year projects must be in areas that are supported by the NSF Division of Chemistry programs in Analytical and Surface Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry and Theoretical and Computational Chemistry. The program aims to realize the NSF strategic goal of developing a diverse, globally-engaged, U.S. science and engineering workforce. The program also encourages the development and use of cyber infrastructure to increase the level of synergy of the proposed projects.

<http://www.nsf.gov/pubs/2008/nsf08602/nsf08602.htm>

#### **4. DOE Photovoltaic Supply Chain and Cross-Cutting Technologies**

Deadline 1/28/2009

\$3M

The award is to identify and accelerate the development of unique products or processes that are expected to have a large impact on the solar photovoltaics.

<https://e-center.doe.gov/iips/faopor.nsf/UNID/A99F5960685C0FBA852574E9005EDE4D?OpenDocument>

#### **5. USDA Wood Education and Resource Center Competitive Grants Program for Fiscal Year 2009**

Deadline 2/2/2009

\$300K

Priority will be given to projects that accomplish one or more of the following items: Examples such as Increase the sustainable use of woody biomass to meet our Nation's needs for energy and raw materials. Examples include public/private partnerships for using woody biomass in heating and cooling, process energy, cogeneration, district energy systems, and solid and liquid fuel production.

<http://www.na.fs.fed.us/werc/grants.shtm>

#### **6. NSF Integrative, Hybrid & Complex Systems (IHCS)**

2/7/2009

IHCS supports innovative research in micro and nano systems, communication systems, and cyber systems that integrate physical devices and components with computational intelligence and networks. The goal is to design, develop and implement new nano/micro/macro complex and hybrid systems with engineering solutions for a variety of domain-specific applications in healthcare, environment, communications, disaster mitigation, homeland security, transportation, manufacturing, and other systems-related areas.

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13381&org=NSF&sel\\_org=NSF&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13381&org=NSF&sel_org=NSF&from=fund)

#### **7. EPA, GLNPO Lake Erie Coordinated Science and Monitoring**

150K

Applicants' proposals pursuant to this funding opportunity must conduct and promote the coordination and acceleration of research, investigations, experiments, training, demonstrations, surveys, and/or studies relating to the causes, effects, extent, prevention, reduction, and/or elimination of pollution.

<http://fundingopps.cos.com/alerts/116826>

#### **8. DOE Integrated Biorefinery Operations**

\$185M for 12 awards

These integrated biorefineries would produce liquid transportation fuel to support meeting the advanced biofuels portion of the Energy.

<https://e-center.doe.gov/iips/faopor.nsf/UNID/63F9F91D2EA7865A85257527005EC91A?OpenDocument>

#### **9. NSF Biotechnology, Biochemical, and Biomass Engineering**

3/1/09

The BBBE program emphasizes basic engineering and biological research that advances the fundamental knowledge base that contributes to a better understanding of cellular and biomolecular processes and eventually to the development of generic enabling technology and practical

application. Research areas include, but are not limited to: Fermentation technology, enzyme technology, and biosensor development.

<http://researchfunding.duke.edu/detail.asp?OppID=1699>

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## **JOBS & INTERNSHIPS & STUDENT & Ph.D. OPPORTUNITIES**

### **1. Faculty Position: Assistant Prof of Environmental Studies with Expertise in Natural Science, Oberlin College**

Oberlin College, Environmental Studies Program, seeks full-time, one year sabbatical replacement beginning August 2009. Candidates should have expertise in systems ecology or related areas such as simulation modeling, GIS, ecological engineering, or landscape ecology. Incumbent will teach one introductory environmental studies course and courses in his/her area of expertise. Requirements: PhD in hand or expected spring '09. Submit letter of application, statement teaching interests, curriculum vitae, academic transcripts, and three letters of recommendation to John Petersen, Director, Environmental Studies Program, 122 Elm Street, Oberlin College, Oberlin, OH 44074, by 1 March 2009. Fax 440-775-8946. Late applications may be considered until position is filled. AA/EOE Full description at: [http://new.oberlin.edu/home/jobs/jobs\\_detail.dot?id=566442](http://new.oberlin.edu/home/jobs/jobs_detail.dot?id=566442)

### **2. Postdoctoral Fellowship in Austria for Researchers in Natural and Social Sciences, Math, Policy and Engineering**

Application Deadline: 1 February 2009

The International Institute for Applied Systems Analysis (IIASA), located in Schloss Laxenburg near Vienna, Austria, provides full funding for two postdoctoral researchers each year. Scholars are expected to conduct their own research within one of IIASA's research programs or special projects on topics closely related to IIASA's agenda. IIASA is an international institution, supported by the U.S. and 18 other governments, engaged in scientific research aimed at providing policy insight on issues of regional and global importance. An on-line application form, along with more information, can be found at [http://www.iiasa.ac.at/Admin/PDOC/apply\\_iiasa.html](http://www.iiasa.ac.at/Admin/PDOC/apply_iiasa.html)

### **3. Herbert Scoville Jr. Peace Fellowship**

Herbert Scoville Jr. Peace Fellowship, a competitive national program, provides college graduates the opportunity to work in Washington, DC, with a public-interest organization focusing on international security issues. Scoville Fellows may undertake a variety of activities, including research, writing, and advocacy in support of the goals of their host organization and may attend coalition meetings, policy briefings, and Congressional hearings. They have written fact sheets, letters to the editor, op-eds, magazine articles, briefing books and reports, organized talks and conferences, and been interviewed as experts by the media. Many former Scoville Fellows work for U.S. and international NGOs, the Federal Government, and academia, or attend graduate school in political science or international relations, following their fellowships. A flyer about the program can be printed from [www.scoville.org/flyer.html](http://www.scoville.org/flyer.html) The next application deadline is February 2 for the Fall 2009 Fellowship. All U.S. citizens, and foreign nationals residing in the United States, are eligible to apply; non-U.S. citizens living outside of the United States are not. Contact Paul D. Revsine, Program Director, at (202) 543-4100 x2110 [www.scoville.org](http://www.scoville.org)

### **4. Two Tenure-track Assistant Professor positions at U of Idaho-- Climate Science and Regional Planning/Human Impacts of Climate Change.**

The Department of Geography at the University of Idaho is leading a state-wide initiative on the science and human dimensions of climate change in the intermountain west, and adding two positions to begin in August 2009. Both new faculty will join a team of researchers in the department and throughout the state with interests in the biophysical and human impacts of climate change in our region. These positions will serve departmental degree programs (B.S., M.S. and Ph.D.) and several interdisciplinary programs at the University of Idaho, including Environmental Science, Bioregional Planning, and Water Resources. Applications will be accepted for each position until filled, but screening will begin on Jan 15, 2009. Both positions include a generous start-up package. For a complete description of each position and to apply online, visit [www.hr.uidaho.edu](http://www.hr.uidaho.edu)

### **5. Five positions at Technical University of Denmark**

Technical University of Denmark has openings for five permanent positions (assistant professor or associate professor) related to life cycle assessment and management to be occupied within the Quantitative Sustainability Assessment Section at the Department of Management Engineering (<http://www.dtu.dk/centre/MAN-QSA/English.aspx>). The positions concern: life cycle inventory modeling; life cycle impact assessment, physical impacts and resources; life cycle impact assessment, emission-related impacts; social life cycle assessment; and life cycle management and decision support tools. Information on the positions and the requirements to applicants is given at [http://www.dtu.dk/English/About\\_DTU/vacancies.aspx?guid=23300743](http://www.dtu.dk/English/About_DTU/vacancies.aspx?guid=23300743). The positions are open for application until February 2nd 2009, and depending on the qualifications of the applicants two of the positions will be occupied at this call while the other three are foreseen to be re-announced later in 2009 or 2010.

## **6. PNNL - Battelle / Building Engineering Opportunities**

The Energy and Environment Directorate at Pacific Northwest National Laboratory-Battelle is currently seeking both senior and junior level candidates in the buildings energy research area. See attached job descriptions for your review. We offer an attractive compensation, relocation, pension, and benefit package.

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## **NEW RESOURCES**

### **1. Sustainability: The Journal of Record Volume: 1, Number: 6 Dec 2008**

The above issue is now available online from Liebert Online at: <http://www.liebertonline.com/toc/sus/1/6>.

### **2. Free US time-series and comparative-OECD public policy charts**

Klass Gary Martin [gmklass@ilstu.edu](mailto:gmklass@ilstu.edu) is offering his US time-series and comparative-OECD public policy charts free to use in courses. They are contained in a 2007 Word document and all the charts can be copied and resized for powerpoint. The link is here: <http://lilt.ilstu.edu/jpda/charts/handout.docx>

## **EVENTS & CONFERENCES**

### **1. Green Today, Jobs Tomorrow conference, May 11, at the Lansing Center.**

Green Today, Jobs Tomorrow conference will be held on May 11 at the Lansing Center. The conference will focus on workforce and economic development for Michigan's emerging green economy. The conference is aimed at bringing together business, education and training, labor, environmental, community, and faith-based, and policy advocacy partners and stakeholders who are currently working on nurturing a green economy and talent base in Michigan. To sign up for email updates about the conference, please visit [www.michigan.gov/greenjobsconference](http://www.michigan.gov/greenjobsconference). Registration materials will be posted in early 2009.

### **2. 2009 The Center for Sustainable Engineering Workshop Carnegie-Mellon University July 13-14, and July 16-17**

Deadline for Application - February 14, 2009

The Center for Sustainable Engineering (CSE) is a partnership among Carnegie-Mellon University, the University of Texas at Austin, and Arizona State University in Tempe. Supported by NSF and the EPA, the Center is dedicated to helping engineering professors update their courses and develop new ones to account for rapidly changing world conditions that are transforming the practice of engineering. This is achieved through workshops conducted by the CSE, which provide guidance so that the impacts of engineering decisions on the environment, society, and the economy can be included in courses across the engineering curriculum.

A maximum of thirty participants will be selected for each workshop through a competitive application process. These workshops will include a number of interactive and hands-on sessions conducted by leading faculty members in sustainable engineering. The sessions will address concepts in sustainable engineering, ways to incorporate these concepts into courses, comparisons of sustainable engineering education at schools across the country, federal programs for funding for research and education in sustainable engineering, and building a community of educators in this emerging topic. The workshops will also provide guidance in using and contributing to the CSE's Electronic Library of sustainable engineering education materials.

Go to [http://www.csengin.org/2009\\_workshops.htm](http://www.csengin.org/2009_workshops.htm)

### **3. 15th Annual International Sustainable Development Research Conference, 5-8 July 2009, Utrecht, The Netherlands**

See website for extended deadlines.

As organizing committee of the 15th International Sustainable Development Research Conference 2009 we are looking forward to a very exiting meeting in July 5-8th, 2009. We received 463 abstracts from countries all over the world, covering all Themes and Tracks as presented on the conference-website. To debate the recent developments in the global economy, we added an additional Topical Track 0, 'Responding to the Financial Crisis: Opportunities for Ecological Transition from/within a Collapsed Economy'. <http://globalchallenge2009.geo.uu.nl>

### **4. 2009 IEEE International Symposium on Technology and Society (ISTAS '09) May 18-20, 2009 Tempe, Arizona**

Theme: Social Implications of Sustainable Development

The IEEE International Symposium on Technology and Society (ISTAS) is an annual international forum that explores the social implications of technology. ISTAS'09 will be held concurrently with the IEEE International Symposium on Sustainable Systems and Technology (ISSST), with joint sessions related to an overall conference theme of sustainability. ISTAS '09 will bring together participants interested in sharing their research, projects, and ideas about: Technological innovation as a strategy for sustainable development; Ethical considerations in sustainable development; Roles for expert and lay knowledge in sustainable development; Perspectives from South, North, East, and West in a context of globalization; Role of 'community' in sustainable development; Professional education for sustainable development; Systems thinking as a frame for inquiry on sustainable development; and other sustainability-related topics.

Submit paper/panel/presentation proposals by January 20, 2009 at <http://www.ieeeessit.org> See also [www.isiestudents.com/SIEYP.html](http://www.isiestudents.com/SIEYP.html) for information about financial aid for Young Professionals to Symposium on Industrial Ecology for Young Professionals (SIEYP) held at the same time. Application deadline January 31, 2009.

### **5. Sustainable Innovation: Global Challenges and Opportunities**

Martin Charter, Director, The Centre for Sustainable Design

28th January 09 12.00 - 2.00

University for the Creative Arts Farnham UK

FREE workshop Organised by: SMART Knowledge Cluster [www.cfsd.org.uk/smile](http://www.cfsd.org.uk/smile)

Global society is facing unprecedented levels and speed of change driven by a range of issues including the fuel, food, and financial crises, climate change, the rise of Chindia ( China and India ) and the growth of internet use. As the economies of Chindia still continue to grow, there is increasing pressure on scarce resources. Concerns over the sustainability and equity of global consumption and production patterns are also growing in the context of predicted major increases in the population in the developing world coupled with less predictability of weather patterns. How will consumers and producers adapt? Despite the on-going prospect of economic downturn, environmental awareness remains high driven by continued media and societal interest in climate change. Perhaps we now face a cross roads. Is there a need for a Blue-Green roadmap to re-generate our struggling economies. The Green Economy Initiative (or 'Green New Deal') was launched in October 2008 and is being spearheaded by the United Nations Environment Programme (UNEP) as a new engine for growth and job creation through sustainable technology development. Is the world ready for a new, New Deal? There is a need for all key stakeholders, to accept the need for more radical (sustainable) change alongside the change that is already happening. New systems and structures are needed to take global society forward; however, the process to do this is, as yet, unclear. Perhaps, the 'Green New Deal' will provide the impetus for leadership and 'buy in'. To achieve this will require 'sustainable innovators' and change agents in all spheres of global society. People, leadership and creativity will be at the heart of that change.

### **6. 2009 The Twenty-Fourth International Conference on Solid Waste Technology and Management**

March 15 - 18, 2009 Philadelphia, PA U.S.A.

The agenda for The 24th International Conference on Solid Waste Technology and Management is now available at: [www.widener.edu/solid.waste](http://www.widener.edu/solid.waste).

**7. IAGLR '09 Call for Papers, May 18-22, 2009, University of Toledo, Ohio**

The International Association for Great Lakes Research invites you to participate in the 52nd Annual Conference on Great Lakes Research at the University of Toledo, in Toledo, Ohio. We welcome abstract submissions for both oral and poster presentations. Please submit your abstract online by the new Friday January 16, 2009, deadline at <http://www.iaglr.org/conference/callpapers.php>

**8. Association of Colleges and Universities meeting in Seattle workshop January 21**

SUSTAINABILITY: Place, Responsibilities, and the Curriculum workshop will be held one day before the American Association of Colleges and Universities annual meeting is in Seattle in two weeks. A one-day pre-conference workshop will be held on January 21. Information is available at: <http://aacu.org/meetings/annualmeeting/AM09/symp.cfm>