

***SFI weekly newsletter for the week of July 13, 2009***  
***A weekly service of SFI***



Details of these headlines are posted on the SFI website at <http://www.sfi.mtu.edu/news-newsletter.php>

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**EVENTS & CONFERENCES**

1. National conference call series about media strategies for sustainability
2. Webinar on Solar Power Purchase Agreements July 28, 2009; 1 – 2:30pm Eastern; Online
3. Webcast: Measuring the Real Cost of Parking & Alternative Transportation Options July 28, 2009; 1-3pm
4. AASHE/NWF Student Summit at Greening of the Campus Conf Sept 20, 2009; 1 – 5:30pm Eastern; Indianapolis
5. Registration Open - Greening of the Campus VIII September 20-23, 2009; Indianapolis, IN
6. Registration Open - Conference on Sustainable Laboratories September 22-24, 2009;
7. Aspen Institute Center for Business Ed web conf on "Env Responsibility & the Multinational Corporation"
8. Webinar Series: LEED for Neighborhood Development: Sustainability Beyond Buildings
9. APCSEET abstract submission deadline has been extended to July 30, 2009

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](mailto:dmheikin@mtu.edu).

## SFI NEWS AND ANNOUNCEMENTS

### 1. SF IGERT Summit next week



**SF IGERT Summit at SUBR in March 09**

Faculty, staff, and student members of the Sustainable Futures IGERT group from Southern University and A & M College in Baton Rouge Louisiana (SUBR) will join their MTU cohorts for a summit next week from July 20th to the 23rd. The time will be spent assessing this final year of the SF IGERT collaboration between MTU and SUBR. The SF IGERT (Integrated Graduate Education and Research Traineeship) is an NSF sponsored program that engages a diverse group of doctoral and master's students in an education and research training program to understand, explore, apply, and further develop the science of sustainability and the Sustainable Futures Model. The goal of the SF IGERT is to enhance graduate education by integrating the engineering and technology of industrial ecology; the science of environmental assessment and modeling; and the economic, human behavior, and policy-making aspects of the social sciences to develop professionals knowledgeable in sustainability (<http://www.sfi.mtu.edu/IGERT/>).

At next week's Summit, students will present and discuss their research projects and talk about their group collaborations and courses, and make recommendations for future IGERT activities. Although this IGERT program is ending, SFI and SUBR have been invited to submit another collaborative IGERT proposal. Next week's Summit is timed to provide valuable information for the next application. The Summit is not all work, however, as the SUBR contingent will be shown some Copper Country hospitality on their waterfall tour conducted by the Michigan Tech's Outdoor Adventure Program. In addition, SFI members have been invited to join the Baton Rouge contingent for a catered picnic at the Hancock Beach on Tuesday evening. Picnic reservations have already been submitted but call 487-0044, if you would like to be included.

### 2. John Sutherland to step down as SFI Director



**Above: Sutherland receiving the 2009 SME International Honor Award for Education.**

John Sutherland is stepping down as SFI's Director to accept a position at Purdue University as the Head of the Division of Environmental and Ecological Engineering. Dr. Sutherland came to Michigan Tech in 1991, and most recently has held the Richard & Elizabeth Henes Chair Professorship in Mechanical Engineering. He has served as SFI's Director since 2004. Under John's leadership, the Institute has grown steadily and now includes approximately 70 projects.

Sutherland has promoted SFI at every opportunity and has made many lasting contributions, including numerous efforts to engage industry, stimulate collaborations, increase funding, and promote the Institute within the University. He has worked tirelessly to enhance SFI's visibility by emphasizing its unique

interdisciplinary approach and "systems view" of sustainability that addresses a variety of perspectives from many disciplines. We wish John well in the next chapter of his career, and we know that he will miss the people of SFI as well.

### 3. Michigan Tech's Green Campus Enterprise in Houghton's DMG



Houghton's local newspaper announced the organization of Michigan Tech's latest Green Campus Enterprise program in a July 15<sup>th</sup> article. The GCE is currently calculating the campus carbon footprint and developing plans to reduce the footprint. The GCE was also featured in Tech Today <http://tinyurl.com/l2kr2y> The accompanying photo includes, from left, GCE campus culture team leader Jessica Banda, co-advisor Kristine Bradof and wind turbine team leader Charles Workman. Source: Layla Aslani/DMG

### 4. Global City now has a web page



GLOBAL CITY is a student organization at Michigan Tech dedicated to addressing critical, global issues, especially those that most directly impact developing countries. Its members meet regularly to attend presentations by invited speakers, to give presentations and present research, and to pursue the three main goals of the organization, which are:

- \* To foster cooperation and understanding among nationals of different countries.
- \* To promote interest in international affairs such as the environment, human rights, technology transfer, poverty, development, and sustainability.
- \* To provide a forum for the presentation of innovative ideas to benefit the

university and the world community. For more information on our organization, please see our Facebook page at <http://www.facebook.com/group.php?gid=44514407925> (make sure to login to Facebook first), where members can raise questions and generally speak out and about. Financial contributions are also gladly accepted and help us bring speakers and host events. <http://global.students.mtu.edu/>

## SUSTAINABILITY NEWS

### 1. Sustainability Task Force Established in Marquette, Michigan

The City of Marquette recently established a committee of regional experts to address community sustainability issues including energy conservation, Great Lakes protection and economic sustainability. See Mining Journal News Article here: <http://www.miningjournal.net/page/content.detail/id/530340.html?nav=5006>  
See also [www.superiorwatersheds.org](http://www.superiorwatersheds.org)

### 2. Greenhouse power system feeds its CO2 emissions back to plants

Canadian government and business leaders recently gathered near Lake Erie in southern Ontario for the grand opening of North America's first GE-designed greenhouse cogeneration plant. The plant is intended to generate more reliable onsite power and heat for commercial greenhouses and help the country reduce its emissions from energy production. Great Northern Hydroponics, a division of Detroit-based Soave Enterprises, installed the 12-megawatt commercial greenhouse power plant at Soave's sprawling, 55-acre tomato greenhouse complex in Kingsville, Ontario.

More from the Great Lakes IT Report Web site <http://www.wwj.com/New-Greenhouse-Power-system-Uses-CO2-For-Plants/4793367>

### 3. USGBC Young Leader Awards--Deadline is August 31

The U.S. Green Building Council is now accepting applications for the USGBC Young Leader Awards. The award recognizes individuals between the ages of 13 and 25 who have demonstrated a commitment to sustainability and effected change in their schools, communities, and beyond. Honorees will enjoy an all-expense-paid trip to Phoenix, Arizona for the Greenbuild Conference and Expo, November 11-13, 2009. Additionally, honorees will receive an all-expense paid trip to Washington, D.C. for the Speak Green Festival in April 2010, where they, along with poets from the Youth Speaks Green Team, will take the stage at the Kennedy Center to be celebrated for the work they are doing to transform their communities toward a more sustainable future. The deadline for applications is August 31, 2009.

Go to <http://www.usgbc.org/DisplayPage.aspx?CMSPageID=2030>

#### 4. Caltech Announces \$90 M Sustainability Institute

California Institute of Technology has announced plans for a \$90 million Resnick Sustainability Institute. The vision of the new Institute is to provide a path to sustainability by focusing on innovative science and engineering developments required for groundbreaking energy technologies. Caltech has already received \$30 million and has plans to obtain additional funding over the next year. [http://media.caltech.edu/press\\_releases/13267](http://media.caltech.edu/press_releases/13267)

#### 5. NSF Awards \$399,939 to Study Science Impacts of Economic Stimulus Package

The National Science Foundation (NSF) has awarded \$399,939 for two research projects designed to use the science initiatives funded by the American Recovery and Reinvestment Act (ARRA) to advance understanding of the impact of science investments. Researchers at the University of Virginia get \$199,951 to study the impact of stimulus funding on employment in science and engineering fields, while the University of Michigan receives \$199,988 to develop a database of the investments in science research. This is an NSF News item.

#### 6. New Data Show Jump in Science and Engineering Graduate Study

New data show that enrollment in U.S. science and engineering (S&E) graduate programs in 2007 grew 3.3 percent over comparable data for 2006--the highest year-over-year increase since 2002 and nearly double the 1.7 percent increase seen in 2006. Science programs added the most students in absolute numbers, but engineering's percentage growth over 2006, 5.9 percent, was substantially higher than that of science, which grew by 2.4 percent. Enrollment in computer sciences programs was up 2.7 percent, the first increase since 2002. Data from the 2007 survey are also available in newly restructured public use files at [http://www.nsf.gov/statistics/srvygradpostdoc/pub\\_data.cfm](http://www.nsf.gov/statistics/srvygradpostdoc/pub_data.cfm). More at [http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=115008&govDel=USNSF\\_51](http://www.nsf.gov/news/news_summ.jsp?cntn_id=115008&govDel=USNSF_51) This is an NSF News item.



#### 7. Michigan Sea Grant Supports New Great Lakes Research

Michigan Sea Grant awarded a total of \$140,000 to Soji Adelaja of Michigan State University for a project with Michigan coastal communities to assess the consequences of wind energy development and evaluate policy options, in advance of development proposals. The project focus areas include Baraga, Marquette, Houghton and Keweenaw areas in the Upper Peninsula, as well as Presque Isle and Bay County in the Lower Peninsula. To learn more about this project and others, visit: [www.miseagrant.umich.edu/research/current\\_projects.html](http://www.miseagrant.umich.edu/research/current_projects.html)

With the help of Sea Grant's extension educators and specialists from both the University of Michigan and Michigan State University, researchers will incorporate feedback from decision-makers, including residents, local leaders, other research teams, county and state officials and economic development groups. All research projects are aligned with priority issues identified by Michigan Sea Grant and the National Oceanic and Atmospheric Administration's National Sea Grant Program. Posted by the WWJ GRIT Report: Monday, 13 July 2009 3:58PM

#### **JOBS & POST DOCS & INTERNSHIPS, FELLOWSHIPS, SCOLARSHIPS and CFPs**

##### 1. Dir, Sustainable Systems MA Prgm, Saybrook Graduate School

Saybrook Graduate School (CA) invites applications for a 50 percent faculty position as Director of the MA in Leadership of Sustainable Systems. Responsibilities will include orienting and mentoring students; facilitating a student learning community; developing course curriculum; and assessing learning outcomes. In addition to providing stewardship of the MA program, there will be opportunities to teach and direct research at the MA and PhD level. A Ph.D. is required. The position is open until filled.

<http://chronicle.com/jobs/id.php?id=0000603944-01&pg=s&cc=>

##### 2. Director, Sierra Student Coalition

The Sierra Student Coalition seeks a Director to plan, organize, and implement the education and mobilization of the organization. The successful candidate will also work with SSC student volunteers to organize support for grassroots campaigns, events, and skills training and to generate turnout for campaign visibility events.

Requirements include a current and basic knowledge of environmental issues; 1-2 years of related experience, and strong organizational and problem-solving skills. Candidates should be able to travel up to 40 percent of the time. [http://groups.google.com/group/eac-jobs-board/browse\\_thread/thread/fdd181597931c6de](http://groups.google.com/group/eac-jobs-board/browse_thread/thread/fdd181597931c6de)

### **3. Graduate Associate Faculty, Env'l Studies, Prescott College**

Prescott College (AZ) invites applicants for part time, 12 month Adjunct Graduate Associate Faculty positions in the Master of Arts Program in Environmental Studies. Primary responsibilities will include supporting and evaluating student learning; advising graduate students; guiding and evaluating student program development and learning outcomes; assigning graduate advisors; supervising programs of study; delivering hybrid online core curricula; participating in residential curricular activities; and cultivating relationships with mentors, advisors, and organizations. Review of applications will begin immediately and will continue until the position is filled. <http://chronicle.com/jobs/id.php?id=0000603521-01&pg=s&cc=>

### **4. Instructor, Environmental Science, Everest College**

Everest College (CA) is seeking an instructor of Environmental Science. General duties will include maintaining a teaching assignment for class; planning course instruction based upon the approved syllabus/outline; and designing, administering, and grading examinations to assess achievement of course objectives as identified in the syllabus. A Master's degree in 18 hours of credits in Environmental Science is required. The position is open until filled. <http://www.higheredjobs.com/search/details.cfm?JobCode=175380785>



### **5. Teaching Fellowship, National Wildlife Federation**

The National Wildlife Federation seeks applicants for a teaching fellowship. The successful applicant will be the instructor for an online course that teaches basic climate literacy and action to college students and adults earning professional development credit. During the year-long assignment, instructors will typically have 3 cohorts, unless demand is less than expected for a certain semester. Applicants should be graduate students enrolled in a U.S. college or university. Each instructor works with NWF for about one year, or 11-12 months. The average amount of time spent is about 5-7 hours weekly or 25 hours monthly. The application deadline is July 30, 2009. <https://secure.nwf.org/careergateway/index.cfm?fuseAction=view&positionID=10585>

## **EVENTS & CONFERENCES**

### **1. National conference call series about media strategies for sustainability**

As part of a new national conference call series about media strategies for sustainability, the sustainability office of Brandeis University is hosting a conference call entitled "Understanding and Overcoming Psychological Resistance to Promote Environmental Behaviors" to take place on August 6th, 2009 at 10:00 AM PST (1:00 PM Eastern).

Session Description: Resistance is central to persuasion. In this session, conservation psychologist, Dr. Jessica M. Nolan, will discuss the three types of psychological resistance that may undermine message effectiveness and share several techniques for overcoming resistance to promote sustainable behaviors on campus.

This event is sponsored by the U.S. Partnership for Education for Sustainable Development (USPESD), the Higher Education Associations Sustainability Consortium (HEASC), the Disciplinary Associations Network for Sustainability (DANS), and the North American Council for Staff, Program and Organizational Development (NCSPOD). Please join the session on TBA by dialing: 712-775-7000 passcode 667911#. If you have any difficulties accessing the session, please call 902-491-2170 for assistance. See Resources <http://sites.google.com/site/campussustainmedia/resources> for relevant materials.

A recording and notes from the recent conference call, "Encouraging Pro Environmental Behaviour - How Social Psychology Can Help Us," with Dr. Robert Cialdini has been posted here: <http://sites.google.com/site/campussustainmedia/learning-sessions/conference-session-2>  
[www.brandeis.edu/campussustainability](http://www.brandeis.edu/campussustainability)

## 2. Webinar on Solar Power Purchase Agreements

July 28, 2009; 1 – 2:30pm Eastern; Online



The U.S. EPA's Green Power Partnership will host a webinar on solar power purchase agreements (SPPA), a financial arrangement in which a third-party developer owns, operates, and maintains a photovoltaic system and a host customer agrees to site the system on its roof or elsewhere on its property and purchase the system's electric output for a pre-determined period. Participants will learn the benefit and challenges of an SPPA to the

host customer, how an SPPA can overcome many of the traditional barriers to solar adoption, and the steps necessary for a successful SPPA. As nonprofits, campuses cannot take advantage of the tax incentives for installing solar. Working with a private contractor through a SPPA can enable the developers of campus projects to get wind energy credits. <https://www2.gotomeeting.com/register/467755970>

## 3. Webcast: Measuring the Real Cost of Parking & Alternative Transportation Options

July 28, 2009; 1-3pm Eastern; Online

Academic Impressions will host "Measuring the Real Cost of Parking and Alternative Transportation Options." The webcast will include lessons on assessing current parking demand and transportation behaviors; measuring the impact of transportation demand management; determining future parking demand and costs of new parking; assessing the most cost-effective mix of investments in parking, transit, bicycle, and pedestrian facilities; gathering ideas for how to accommodate future growth on campus; and gathering ideas for multiple sources of revenue to finance transportation program. The webcast is designed for professionals from parking and transportation, campus security/public safety, campus planning, sustainability coordinators and advocates, and facilities management. [http://www.academicimpressions.com/web\\_conferences/0709-transportation-investments.php](http://www.academicimpressions.com/web_conferences/0709-transportation-investments.php)



## 4. AASHE/NWF Student Summit at Greening of the Campus Conference

September 20, 2009; 1 – 5:30pm Eastern; Indianapolis, IN

AASHE and the NWF Campus Ecology Program invite college and university students from the United States and Canada to attend the 2009 Student Summit. The goal of the summit is to allow students to collaborate on

projects taking place on their campuses, to share best practices, to learn about new and innovative initiatives, and to give students an opportunity to develop solutions to climate change on their campuses and in their regions. The event will offer several "how to" workshops, networking time, and a free-for-all breakout session where students will break off into groups to discuss topics of their choice. The Summit will be held as a pre-conference workshop before the Greening of Campus Conference. The cost is free to students attending the GOC Conference and \$15 for students who are not attending the conference. <http://www.aashe.org/studentsummit>

## 5. Registration Open - Greening of the Campus VIII

September 20-23, 2009; Indianapolis, IN

Ball State University and AASHE invite registration for Greening of the Campus VIII: Embracing Change. Keynote speakers will include Frances Moore Lappé, author of *Diet for a Small Planet*; Geoff Chase, Dean of Undergraduate Studies at San Diego State University (CA); and Jerome Ringo, President of the Apollo Alliance. Other conference features will include pre-, post-, and in-conference workshops; a two-day tradeshow focused on promoting environmentally sustainable and socially responsible products and services; panels, forums, and posters; and a networking reception with the Labs 21 conference. Early registration ends August 1, 2009. Discounts are available for students and AASHE members. <http://goc.iweb.bsu.edu/index.html>

## 6. Registration Open - Conference on Sustainable Laboratories

September 22-24, 2009; Indianapolis, IN



The International Institute for Sustainable Laboratories has opened registration for its Labs21 2009 Annual Conference. The event will include a parallel reception with Ball State University's and AASHE's "Greening of the Campus VIII: Embracing Change" conference; keynote speaker John C. Lechleiter, CEO of Eli Lilly; open discussion, and presentations on laboratory operations and maintenance,

research and development campuses' sustainability efforts and the need for investors/developers, laboratory security, and combined heat and power. A discounted registration is available for those attending Greening of the Campus VIII. Early registration ends July 20, 2009. <http://www.i2sl.org/labs21/conference/registration.html>

**7. Aspen Institute Center for Business Education web conf on "Environmental Responsibility and the Major Multinational Corporation" from 1:00-2:00 PM Eastern time on July 28th**

The Aspen Institute Center for Business Education invites all interested to a web conference on "Environmental Responsibility and the Major Multinational Corporation" from 1:00-2:00 PM Eastern time on July 28th. The speakers will be Irene Henriques, who is Associate Professor of Economics at the Schulich School of Business at York University, and Bruce Schlein, who is Vice President of Corporate Sustainability at Citi. The conference is free of charge. To RSVP, please contact Chad Ayotte. [chad.ayotte@aspeninst.org](mailto:chad.ayotte@aspeninst.org) [www.aspeninstitute.org/](http://www.aspeninstitute.org/)

8.



Come see what all the excitement is about! LEED for Neighborhood Development, created by USGBC in partnership with the Congress for the New Urbanism and the Natural Resources Defense Council, is the first national standard for green neighborhoods. Join us to witness the stories of certified pilot projects, both in urban infill locations and suburban locations, learn from challenges overcome by project teams, and obtain best practices in developing green neighborhoods. <https://www.globallearningsystems.com/usgbc/webinars/register.php?id=8>

9. APCSEET abstract submission deadline has been extended to July 30, 2009

These 7th APCSEET paper will be peer reviewed and published as special issues in *Catalysis Today* (2008 Impact factor 3.004) and *Energy & Fuels* (2008 impact factor 2.056). To submit an abstract, please visit:

<http://apcseet2009.upc.edu.cn/paperSubmission.htm>

Welcome you attend the APCSEET2009 (Qing Dao, China). <http://apcseet2009.upc.edu.cn/index.asp>