

***SFI weekly newsletter for the week of March 9, 2009***  
***A weekly service of SFI***

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3. Instructor, Environmental Science, Texas Christian U

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13. Greening the Heartland 2009 May 31-June 2 COBO Center, Detroit
14. Smart and Sustainable Campuses Conference 2009
15. AASHE Sustainability Across the Curriculum Leadership Workshop
16. Webinar: Renewable Energy Hedges

*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. **New Forestry Biofuel Statewide Collaboration Center, in Escanaba, supports work by Michigan Tech and MSU**  
Michigan Tech and Michigan State University received more than \$1.4 million from the US Department of Energy through the Michigan Economic Development Corporation (MEDC), to establish a new forest-based biofuel research center dedicated to helping make cellulosic biofuels a commercial reality. The MEDC will receive nearly \$2.5 million from the federal omnibus spending bill to build upon work launched through the Michigan Centers of

Energy Excellence program. The new center, in Escanaba, will support work by Michigan Tech and MSU to improve the feedstock availability for biofuel facilities. The FY09 appropriation of \$1.4 million builds upon the MEDC's earlier award of \$20 million to Mascoma Corp. This also enables this project to be expanded to have a statewide, rather than regional, focus.

"This important funding will help solidify the Michigan Tech-Michigan State University collaboration to help industry partners commercialize production of forest-based biofuels, bioenergy and bioproducts," said SFI Deputy Director David R. Shonnard. Shonnard is a leader for the new center as well as the current \$2 million state-funded Center of Energy Excellence, another collaborative effort of Michigan Tech, MSU and Frontier Renewable Resources. For complete details on the COEE program, visit [www.michiganadvantage.org/21CJF](http://www.michiganadvantage.org/21CJF) WWJ Radio <http://www.wwj.com/Federal-Budget-Includes-Funding-for-Centers-of-Ene/4009647> <http://www.wwj.com/pages/4002488.php> Also see news story in headlines on Michigan Tech front page at <http://www.mtu.edu/>

## **2. Forest-based Bioenergy for Michigan's Upper Peninsula Workshop Report**

SFI members Robert Froese (SFRES) and Kathleen Halvorson (SS and SFRES) were among the presenters at the March 10<sup>th</sup> biomass workshop in Marquette. The workshop explored the future of woody biomass utilization in the region and what that might mean for local forests, economies, and communities. Froese presented information about biomass inventory, potential, and feedstock availability. Halvorson's talk was entitled "Policies, Perceptions, and Wood-based Bioenergy." In addition, Donna LaCourt, from the Michigan Economic Development Corporation, gave an update on the Centers of Energy Excellence and the Feedstock Supply Chain. Brief news stories of two of these talks are presented below:

FOR Mac users or Windows+QuickTime

<http://www.biometrics.mtu.edu/downloads/robert.m4v>

<http://www.biometrics.mtu.edu/downloads/donna.m4v>

For Windows users otherwise

<http://www.biometrics.mtu.edu/downloads/robert.wmv>

<http://www.biometrics.mtu.edu/downloads/donna.wmv>

For longer versions of the above reports go here:

[http://www.biometrics.mtu.edu/downloads/donna\\_and\\_robert.m4v](http://www.biometrics.mtu.edu/downloads/donna_and_robert.m4v) (Quicktime)

[http://www.biometrics.mtu.edu/downloads/donna\\_and\\_robert.wmv](http://www.biometrics.mtu.edu/downloads/donna_and_robert.wmv) (Windows Media)

## **3. Research Experience for Undergraduates (REU) openings**

Please remind your undergrads that some REUs still have openings for the summer. Encourage undergraduate students to check for openings at <http://www.pathwaystoscience.org/Undergrads.asp>

## **4. Tech-Talks Education: The Future of Sustainability Education, Thursday, March 19, 4-5 p.m. Wads Cafe Annex**

Another flavor of the Tech-Talks series begins with "Tech-Talks Education: The Future of Sustainability Education." This session will focus on educational efforts on sustainability elsewhere and the future of sustainability education at Michigan Tech. There will be a cash bar, with the first pop, wine, or beer on the house, and munchies will also be provided.

This Tech-Talks session will be the first of two workshops organized by SFI to explore possibilities in the area of sustainability education. At this first workshop, participants will learn about the current education efforts on this topic at Michigan Tech and at other institutions. Dr. David Shonnard, Richard and Bonnie Robbins Chair in Sustainable Materials and Deputy Director of the Sustainable Futures Institute, will present a brief overview of sustainability education at other institutions. Similar to previous Tech-Talks sessions, a series of two minute presentations will follow focusing on sustainability education at Michigan Tech. At the second workshop, participants will have the opportunity to explore specific funding opportunities available in the area of sustainability education.

All faculty, staff, and graduate students who feel they can make a contribution to sustainability education or who want to learn about the efforts of others are strongly encouraged to attend. If you are interested in giving a short presentation at this session you are asked to submit two slides: one listing your current courses or activities in this area and the other listing the type of projects you are interested in pursuing in the future. Please send your two PowerPoint slides to Donna J. Michalek, donna@mtu.edu, by Wednesday, March 18.

If you would like to look at the presentations from previous Tech-Talks sessions you can find them on Blackboard (<https://courses.mtu.edu>). After you log in using your MTU userid and ISO password, click on Research (donna) Tech Talks. This Tech-Talks Education session is sponsored by the Provost's Office and the Sustainable Futures Institute. All are welcome.

### **5. A Systems Approach To Studying Sustainability Of Infrastructure Systems, Wed, March 25, 3:00 138 Fisher**

The next presentation of the 2009 SFI Speaker Series will be Dr. Amlan Murkerjee, (CEE).

Abstract: The integration of sustainability into investment and operating decisions of civil infrastructure systems (transportation networks, water supply networks, sewer systems etc.) poses the challenge of redefining the boundaries of the problem at hand to include the context within which it is situated. Traditional engineering approaches to problem solving tend to be mechanistic and exact, rooted in reductionist analysis methods that do not consider the contexts within which the engineered system is operated. Sustainable decision-making, on the other hand, demands a paradigm shift that requires the inclusion of socio-economic-environmental contexts. It involves an understanding of how available resources are invested across different agencies and stakeholders. The use of Context Sensitive Solutions (CSS) in the design of transportation systems is a significant first step. However there remains the need to enhance it by further involving metrics and measures of how available resources are invested across different stakeholders to best meet societal demand, mitigate environmental impact while maintaining economic vitality. This effort extends existing research (Muga et. al 2008, 2009) that have focused on studying specific components of transportation decision-making, to an integrated systems framework that defines relationships critical to guiding sustainable decision-making in transportation systems. The research uses a system dynamics approach in conjunction with existing life-cycle approaches to investigate the relationships between sub-system metrics and system level metrics, and understand critical trade-offs that inform long term decision-making. The goal of the research is to develop a decision support system that helps decision-makers in public and private agencies consider intermodal interactions, environmental and socio-economic impacts across different temporal and system scales.

### **6. R9 Climate Change videoconference April 7, 8AM-3PM CT**

Chris Swanston, Director of the Northern Institute of Applied Carbon Science invites all interested to join him at Northern Research Station, USDA Forest Service at 410 MacInnes Drive, Houghton to view a videoconference on climate change (see below). This is a great opportunity to get an idea of what's happening in the USFS Eastern Region and learn who to contact for more information. Each Forest will get a 15 min presentation and there will be 15 min of comments/questions after every few presentations.

Target Participants: Forest/Prairie Climate Change representative/teams; Forest/Regional specialists; Forest/Regional Leadership Team members; Research scientists: and possibly partners such as The Nature Conservancy.

- Learn about the NRS-NFS-Climate Change Response Framework project and help shape it to meet the needs of all Eastern Forests and the Prairie
- Share information about ongoing and planned Climate Change activities on each of the Forests/Prairie
- Discuss opportunities to collaborate on issues of common concern such as expanding monitoring efforts and NEPA to better address climate change
- Share your needs for climate change research
- Build on the ideas shared by other units
- Suggest future topics for Climate Change Town Hall Meetings

Contact Chris at 482-6303 x20, Fax: -6355

<http://nrs.fs.fed.us/people/cswanston>

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## SEMINARS

### 1. Graduate Colloquium in Sustainability 12pm Friday, March 20th, 208 ME-EM

We will be discussing chapters 4-6 in Limits to Growth.

### 2. Environmental Engineering graduate seminar series speaker 1

Jennifer Mwangi will speak on "Eddy Covariance Measurements of CO<sub>2</sub> Fluxes above Lake Superior"

DOW 642, 3-4 pm, March 16th

Abstract

Lake Superior has been reported to be seasonally supersaturated with respect to atmospheric CO<sub>2</sub>, and fluxes estimated from measured pCO<sub>2</sub> are regionally significant. An empirical gas exchange model predicted that the CO<sub>2</sub> flux out of the lake is 0.1-0.4 g C m<sup>2</sup>d<sup>-1</sup> for an annual flux of ~140 g C m<sup>2</sup>d<sup>-1</sup>. Nearby terrestrial fluxes are -8 to +4 g C m<sup>2</sup>d<sup>-1</sup>, with an annual range of -120 to -300 g C m<sup>2</sup>d<sup>-1</sup>. Eddy covariance measurements conducted in summer 2007 and 2008 at eight stations yielded 25 10-minute mean CO<sub>2</sub> fluxes in the range of -166 to +56 g C m<sup>2</sup>d<sup>-1</sup>. The median flux among these values was +3.4 g C m<sup>2</sup>d<sup>-1</sup>. Fluxes at near shore stations were larger and more variable than those further from shore. Statistical analysis of data resulted in a mean ±95% confidence interval of 2.1 + 5.6 g C m<sup>2</sup>d<sup>-1</sup>. Quality control of data, comparison with independent empirical estimates, and fluxes from other sites will be presented. These preliminary results suggest that short-term fluxes are much larger and more variable than previously estimated. The variability in space and time may make estimation of the lake-wide flux difficult.

### 3. Environmental Engineering graduate seminar series speaker 2

Mark D. Rowe will speak on "Gas-phase cleanup method for analysis of trace atmospheric semivolatile organic compounds by thermal desorption from diffusion denuders"

DOW 642, 3-4 pm, March 16th

Abstract

A novel gas-phase cleanup method was developed for use with a thermal desorption method for analysis of trace SOCs in air using diffusion denuder samplers to separate gas-phase from particle-associated fractions. The cleanup selectively removed hydrogen-bonding chemicals from samples, including much of the background matrix of oxidized organic chemicals that is present in ambient air samples. The Abraham solvation parameters were found to be a useful predictor for recovery of compounds through the cleanup method; most compounds with  $A + B < 0.3$  and  $L \leq 12.3$  were fully recovered through the cleanup method. Addition of the cleanup method successfully produced baseline resolution in air samples and improved method precision. The utility of the method was demonstrated in an investigation of the built environment as a continuing source of PBTs to the atmosphere.

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## FUNDING & AWARD OPPORTUNITIES

*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. NOAA Seeks Proposals to Restore Coastal Habitat, Create Jobs, Stimulate Economy

Deadline: April 6, 2009. This is NOT a Michigan Coastal Management Program funding opportunity

The National Oceanic and Atmospheric Administration is seeking proposals for coastal habitat restoration projects under the American Recovery and Reinvestment Act of 2009 in an unprecedented effort to jumpstart the economy. The effort is designed to create resilient and healthy American communities by generating and saving jobs, employing several thousand people, and restoring valuable coastal and marine habitat.

NOAA is formally seeking proposals for a variety of habitat restoration projects - including wetlands restoration, dam removals, shellfish restoration, and coral reef restoration. To ensure relevance, readiness and accountability to the American public, the 30-day solicitation requires that projects be "shovel-ready." Proposals are due by April 6, 2009. For more information about this federal funding opportunity, please visit:

<http://www.habitat.noaa.gov/recovery>.

Please look for more information in the coming weeks as NOAA rolls out its implementation plan. If you have any questions, please contact us at RC.Newsletter@noaa.gov or 301-713-0174.

FYI - proposals are due APRIL 6, 2009. This is NOT a Michigan Coastal Management Program funding opportunity; go to [www.habitat.noaa.gov/recovery](http://www.habitat.noaa.gov/recovery) for information.

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### **JOBS & POST DOCS**

#### **1. Director, Clean Energy R&D Ctr, Southwest VA Higher Ed Ctr**

The Southwest Virginia Higher Education Center (SVHEC) is seeking a highly motivated, multi talented, energetic professional for the recently established position of Director of Research and Development (R&D) for its Clean Energy R&D Center. The Director will develop and promote research priorities and themes, assist faculty members to develop new research areas, encourage investment in research infrastructure, and serve as the regional driver of development for the Engineers PRODUCED in Virginia program. The Director will coordinate the R&D programs and will work closely with the business community to determine research needs. As part of this role, the R&D Director will be an integral part of the Center's team responsible for the design and construction of a new R&D facility. A Master's degree is required and a Ph.D. is preferred. The application deadline is March 31, 2009.

<http://chronicle.com/jobs/id.php?id=0000593987-01&pg=r>

#### **2. Energy Ctr Coordinator, Ferris State U**

Ferris State University (MI) seeks an Energy Center Coordinator to establish the College of Engineering Technology as a recognized and viable center of excellence for energy efficiency and sustainability; create and oversee related collaborations, initiatives, grants, and business opportunities; and establish and sustain a College of Technology Energy Center. A Bachelor's degree is required and a Master's or Ph.D. is preferred. Review of applications will begin immediately and will continue until applicants are selected for interview.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175363584>

#### **3. Instructor, Environmental Science, Texas Christian U**

The Department of Environmental Sciences at Texas Christian University announces a search for an Instructor. The full-time position will report to the Department Chair. Assignments will include teaching freshman level Introduction to Environmental Science and coordinating the corresponding laboratory sections. A Master's degree in Environmental Science, Environmental Studies, Geology, or Geological Sciences is required. The application deadline is March 18, 2009. <http://chronicle.com/jobs/id.php?id=0000594348-01&pg=s&cc=>

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### **NEW RESOURCES**

#### **1. The Environmental Working Group (EWG) releases Shopper's Guide to Pesticides**

This handy guide, now with the latest government data, shows you the fruits and veggies with the most and least pesticides, so you know which to always buy organic and which are pretty clean even when conventionally grown.

<http://www.foodnews.org/>

#### **2. Michigan Green Chemistry Awards Program, "Student Award Category"**

Deadline: March 27, 2009

To complete in the "Student Award Category" of the Michigan Green Chemistry Awards Program students should submit design projects that fulfill one or more of the 12 principles of green chemistry. The design project can be an assignment that was used to complete a requirement for a class, independent study, or a paper to address a problem in industry prior to the December 31, 2008 academic school year. We prefer that the design project has been reviewed by faculty member and it addresses an industrial problem; researched hypothesis, hypothetical, or anomaly. Students must summarize their design project into an abstract, and submit it on the attached application. More information about the announcement is available on DEQ's website:

[http://www.michigan.gov/deq/0,1607,7-135-3585\\_49005-208350--00.html](http://www.michigan.gov/deq/0,1607,7-135-3585_49005-208350--00.html)

Contact Dale Copedge [copedged1@michigan.gov](mailto:copedged1@michigan.gov)

. You can also contact me by telephone at 517 335-0383.

### **3. CALL FOR AUTHORS: Green Series - Green Cities, Green Business and Green Consumerism**

Deadline May 1, 2009

We are inviting academic editorial contributors to the Green Series, a new electronic reference series for academic and public libraries addressing all aspects of environmental issues, including alternative energies, sustainability, politics, agriculture, and many other subjects that will comprise a 12-title set. Each title has approximately 150 articles (much like encyclopedia articles) on major themes, ranging from 1,000 to 4,000 words. We are starting the assignment process for articles for Volumes 4 -6 in the series with a deadline of May 1, 2009:

Volume 4: Green Cities

Volume 5: Green Business

Volume 6: Green Consumerism

This comprehensive project will be published in stages by SAGE eReference and will be marketed to academic and public libraries as a digital, online product available to students via the library's electronic services. The Series Editor is Paul Robbins, Ph.D., University of Arizona, and the General Editor for Volumes 4 and 5 is Nevin Cohen, Ph.D., The New School, and General Editor for Volume 6 is Juliana Mansvelt, Ph.D., Massey University. Both the series editor and general editors will be reviewing each submission to the project.

If you are interested in contributing to this cutting-edge reference, it can be a notable publication addition to your CV/resume and broaden your publishing credits. SAGE Publications offers an honorarium ranging from SAGE book credits for smaller articles up to free access to the online product for contributions totaling 10,000 words or more per volume. The Article list, Style and Submission Guidelines and a sample article are attached. From the available articles (articles that do not have a name in the contributor column), please select topics that best fit your expertise and interests. E-mail your article selections to me and I will confirm availability. If you would like to contribute to building a truly outstanding reference with the Green Series, please contact me by the e-mail information below. Please provide a brief summary of your academic/publishing credentials in environmental issues.

Ellen Ingber, Author Manager, Golson Media [green@golsonmedia.com](mailto:green@golsonmedia.com)

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### **EVENTS & CONFERENCES**

#### **1. FOUR summer teacher institutes at for K-12 classroom teachers and non-formal educators**

(1) Great Lakes Watershed Investigations Teacher Institute ~ June 15-19, 2009

(2) Forest Ecology & Resources Institute ~ June 21-26, 2009

(3) Future Fuels From Forests Teacher Institute ~ July 6-10, 2009

(4) Global Change Teacher Institute ~ July 13-17, 2009

Brochures and application forms: [www.wupcenter.mtu.edu](http://www.wupcenter.mtu.edu)

Application Deadline: Friday, May 15, 2009 ~ 20 spaces available

For more information: Joan Chadde at 906-487-3341 or [jchadde@mtu.edu](mailto:jchadde@mtu.edu)

#### **2. "Renewable Green Energy in the UP" 6:30 to 8 p.m., Monday, March 16, Portage Lake District Library**

Wind? Solar? Running water? Biofuels? Find out which renewable energy sources are choices for home heating and electricity. This is the second program in the Energy Education Series, which is coordinated by the Western Upper Peninsula Center for Science, Mathematics and Environmental Education; Michigan Tech's Center for Science and Environmental Outreach; and the Copper Country and Gogebic-Ontonagon Intermediate School Districts.

TJ Brown, outreach coordinator for Northern Options Energy Center in Marquette, will engage children and adults in learning about renewable energy options. Brown has expertise in residential energy efficiency, energy savings and green home construction.

Following the half-hour presentation, children and adults can investigate alternative energy choices, including making windmills and water wheels, measuring wind speed, comparing solar gain, and designing a well insulated home.

For more information, contact the library at 482-4570 and either Joan Chadde or Lloyd Wescoat at 487-3341. Library events and presentations are free and open to the public. Funding for the program is provided by the Michigan Energy Office and Upper Peninsula Power Company (UPPCO). Find out more at [www.wupcenter.mtu.edu](http://www.wupcenter.mtu.edu)

### **3. GLITR Unwired Coffee "Recycling Michigan" Thursday, March 26, 2009, 8:00 a.m. - 9:30 a.m.**

Lawrence Technological University/ UTLC Gallery Southfield, MI

WWJ Technology Editor Matt Roush presents the next in his series of Unwired Coffee events on Recycling Michigan. Matt and his guests will present the stories of companies that are turning waste products into thriving business opportunities in Michigan. Free. Advanced registration is required.

Go to <http://www.wwj.com/> for details.

### **4. First International Congress on Sustainability Science & Engineering, Aug 9-13, 2009, Cincinnati, OH**

Deadline for CFP for limited number of papers is March 15.

The purpose of the US EPA-sponsored conference is to provide a common platform to practitioners of various physical and ecological sciences, engineering fields, economics, and social sciences for exchanging emerging ideas about ways and means of protecting the environment and preventing further resource depletion. This congress is purposefully designed to bring experts from various disciplines so that it fosters an understanding of different points of view as they relate to products, processes and systems involving sustainability principles. The particular disciplines encouraged to participate in this conference are chemistry, biological sciences, ecology, engineering (chemical, civil, mechanical, and material, environmental, architectural), agriculture, biotechnology, nanotechnology, power and energy technologies, economics, public health and safety, and social sciences.

Overall conference information: [www.aiche.org/IFS/Conferences/index.aspx](http://www.aiche.org/IFS/Conferences/index.aspx)

Call for papers and the preliminary program can be viewed at <http://aiche.confex.com/aiche/icosse09/cfp.cgi>

The registration form is at <http://www.aiche.org/ifs/conferences/registration.aspx>

Some travel grants are available for students and younger faculty. Send a request for info to [ifs@aiche.org](mailto:ifs@aiche.org).

NOTE: Please let Jennifer Donovan [jbdonova@mtu.edu](mailto:jbdonova@mtu.edu), Director of Public Relations University Marketing & Communications, know if you plan on presenting at this conference so she can write about it.

### **5. Sustainable Manufacturing Summit, April 29-30, Chicago**

The inaugural Sustainable Manufacturing Summit attracted over 250 participants to Chicago. Building on this success, the 2009 event will once again bring together top sustainability executives to discuss cost-efficient and climate-friendly best practices for manufacturers of all sectors. Speakers include CEOs and senior sustainability professionals from Siemens, McDonough Braungart Design Chemistry (MBDC), Kraft, Toshiba, US Steel, Abbott Laboratories, Sara Lee, Pfizer, Owens Corning, Hollander, the Department of Energy, Applied Materials, Motorola, The North Face, Eaton Corporation, Herman Miller, Shaw Industries, and more.

<http://www.asaseries.com/v8-12/Prospectus/Index.php?sEventCode=SM0904US>

### **6. Agenda for a Sustainable America Seattle, June 10-11**

Agenda for a Sustainable America is part of a series of four events at which corporate leaders and green innovators will meet to examine how to use sustainability to redefine corporate strategy and drive management practice. Confirmed speakers for our Seattle event include CEOs and senior sustainability professionals from Microsoft, Starbucks, Boeing, Kettle Foods, Lafarge, gDiapers, fmyi, End Footwear, Holland Inc, and more.

<http://www.asaseries.com/v8-12/Prospectus/Index.php?sEventCode=AS0906SEATTLE>

### **7. ASA New York, July 14-15**

Our second Agenda for a Sustainable America event will once again bring together corporate leaders and green innovators to examine how to use sustainability to redefine corporate strategy and drive management practice.

The aim is for companies to develop the systems, strategies and frameworks that will successfully equip them for the challenges and opportunities now being presented by regulation, resource scarcity and climate change. <http://www.asaseries.com/>

#### **8. Stakeholder Engagement, July 16-17, New York**

Companies are facing more and more pressure from shareholders, customers and activists on sustainability issues including climate response, water use and resource management. Drawing on real-world examples and insight from activist investors and other stakeholder groups, this event will offer companies best practices in multi-stakeholder engagement. <http://www.asaseries.com/>

#### **9. ASA Chicago, September**

Our third Agenda for a Sustainable America event will take place in Chicago which has made great strides in its goal to become America's greenest city. The event will again bring together corporate leaders and green innovators from the region to examine how to use sustainability to redefine corporate strategy and drive management practice. <http://www.asaseries.com/>

#### **10. Sustainable Fashion Summit, September**

Building on the success of our Sustainable Manufacturing Summit, this landmark event will focus exclusively on the drive for sustainable products in the fashion sector. A combination of corporate case studies and expert panels will offer the latest updates on how this industry is transforming. <http://www.asaseries.com/>

#### **11. Corporate Water Footprinting, December, San Francisco**

Following our groundbreaking 2008 event, Corporate Water Footprinting will once again showcase the companies leading the way in freshwater measurement and reduction. This event will offer the latest developments in operational and supply chain water efficiencies from business leaders and water management experts. Participants last year included representatives from GE, Adobe, Cadbury, Burt's Bees, Chevron, Clif Bar, Dean Foods, Google, MillerCoors, Nike, PG&E, Safeway, Coca-Cola, and more. <http://www.asaseries.com/>

#### **12. Second International Conference MESD 2009: Strategies for Sustainable Technologies and Innovation**

Nancy and Metz, France from 4 to 6 November 2009

The second International Conference MESD 2009, jointly organized by the ICN Business School, the CEREFIGE (a multi-university European business research consortium) and the Georgia Institute of Technology, Atlanta, will be held in Nancy and Metz, France from 4 to 6 November 2009. You will find full details on the conference website: [www.mesd2009.org](http://www.mesd2009.org).

The Conference focuses on the issue of Strategies for Sustainable Technologies and Innovation. This event will allow participants to debate and share research questions at the core of sustainable strategic management, which are equally relevant to management scholars, economists, lawyers, sociologists and all the engineering fields concerned. It encourages participants to discuss core questions such as why, when and how strategic technological and innovatory choices will be made and deployed. It will also compare worldwide corporate policies and best practices.

Key dates:

- Submission deadline for full papers: May 12, 2009
- Reviewer end date: June 12, 2009
- Early registration start date: June 15, 2009
- Submission deadline for final papers: September 30, 2009

[www.icn-groupe.fr](http://www.icn-groupe.fr)

#### **13. Greening the Heartland 2009 May 31-June 2 COBO Center, Detroit**

sponsored by the USGBC Detroit Regional Chapter with The Engineering Society of Detroit (ESD)  
[www.greeningtheheartland.org](http://www.greeningtheheartland.org)

#### **14. Smart and Sustainable Campuses Conference 2009**

April 5 – 7, 2009; University of Maryland, College Park

The National Association of College and University Business Officers invites attendees to its 4th annual Smart and Sustainable Campuses Conference. Aspects of sustainability to be addressed include operational solutions, smart growth policies, and strategies for achieving climate neutrality. Participants will learn strategies for implementing the President's Climate Commitment; gain an understanding of the elements of developing a business case for sustainable design; and develop insight into issues surrounding green building, transportation, and energy.

Featured sessions include "Sustainability in a World of Diminishing Revenue," "Food, Sustainability, and the New Bio-economy," "The New Green Economy and Opportunities for Higher Education," and "Journalism and New Media in the World of Sustainability." Early bird registration ends March 15, 2009.

[http://www.magnetmail.net/actions/email\\_web\\_version.cfm?recipient\\_id=24984830&message\\_id=584022&user\\_id=NACUBO](http://www.magnetmail.net/actions/email_web_version.cfm?recipient_id=24984830&message_id=584022&user_id=NACUBO)

#### **15. AASHE Sustainability Across the Curriculum Leadership Workshop**

June 11-12, 2009; San Diego State University

AASHE's Sustainability Across the Curriculum Leadership workshops are for faculty leaders of all disciplines who wish to develop curriculum change programs around sustainability on their campuses. Through an intensive two days of presentations, exercises, discussions, reflection, and planning, participants will become familiar with the philosophy of change in higher education developed through the Ponderosa Project at Northern Arizona University and adapted at Emory in the Piedmont Project. Participants will also experience a range of workshop strategies, hear local experts, enjoy outdoor place-based activities, and dialogue with faculty from around the country as they gain help in adapting this model to their own campus. The workshop leaders, Peggy Barlett and Geoffrey Chase, are editors of *Sustainability on Campus: Stories and Strategies for Change* and have helped more than 250 faculty revise courses in a wide array of disciplines. Workshop tuition is \$420 for AASHE members and \$485 for non-members. Applications to participate are due March 20, 2009. <http://www.aashe.org/profdev/curriculum.php>

#### **16. Webinar: Renewable Energy Hedges**

March 31, 2009; 1-2pm Eastern; Online

The U.S. Environmental Protection Agency invites participants to its webinar, "Renewable Energy Hedges: How they can save you money and reduce your carbon emissions." Participants will learn how "contract for differences" hedges work, and how an organization can use these financial agreements to reduce and stabilize energy costs while decreasing its carbon emissions. The Webinar will feature a case study of Southern New Hampshire University's renewable energy hedge contract, which guarantees a fixed price for 15 years for the 15 million kWh of electricity it uses annually. Webinar presenters will be Timothy Swanson from NextEra Energy Resources, Hunter Brownlie from Eco Power Hedge, and Roy Morrison from Southern New Hampshire University.

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