

SFI weekly newsletter for the week of March 2, 2009
A weekly service of SFI

SFI NEWS AND ANNOUNCEMENTS

1. "A Systems Approach to Studying Sustainability of Infrastructure Systems" next SFI Speaker March 24
2. SFI Member Joan Chadde receives Michigan Space Grant Consortium Funding
3. Terra Preta @ MTU working group
4. Call for Posters! The Center for Water & Society World Water Day Poster Competition
5. Sandra Postel, CWS World Water Day Guest Lecturer Global Water Project

SUSTAINABILITY NEWS

1. Google PowerMeter shows how much energy is being used
2. Dow Corning to purchase Wind Energy
3. Funding Available for Leading Graduate Student Visits

SEMINARS

1. Center for Water & Society Colloquium, UN5990 Topic: Impacts, ecological systems
2. Development of a gas-phase cleanup method for thermal desorption analysis of atmospheric semivolatile organic pollutants

3. Behavioral Assembly of Aquatic Metacommunities

FUNDING & AWARD OPPORTUNITIES

1. Conservation Innovation Grants (CIG), USDA, and Natural Resources Conservation Service (NRCS)
3. Rutherford Medal Royal Society of New Zealand (RSNZ)
4. DOE/NREL
5. NSF Virtual Organizations as Sociotechnical Systems
6. NSF Science of Science & Innovation Policy
7. DoD ERDC BAA - Ecological Modeling (EL-30)
8. DoD ERDC BAA – Indust. Process Optimization (CERL-6)
9. DoD ERDC BAA – Construction Materials Made From Recycled Wastes (CERL-11)
10. Transportation Electrification
11. Automotive Battery Manufacturing Initiative
12. Microsystems Technology Office-Wide BAA
13. Manufacturing Engineering Lab. (MEL) Grants Program (FY 2009)
14. Enabling Technologies for High-Hydrogen Fueled Turbines: University Turbine Systems Research (UTSR) FY09
15. Request for UTC-MiSTI Summer Scholar Project Proposals 2009

JOBS & POST DOCS, INTERNSHIPS, FELLOWSHIPS, and SCHOLARSHIPS

1. Northeast Consortium for Hydrologic Synthesis! Fellowship Opportunities Summer Synthesis Institute 2009
2. Intern, National Commission on Energy Policy
3. Sustainable Food Program Manager, Williams College

NEW RESOURCES

1. Two Eco Labels Web Sites
2. Mladi Newsletter for scholarships, grants, internships, and more
3. New Website helps Teachers and Public Understand How Science Works

EVENTS & CONFERENCES

1. Fourth Annual Smart and Sustainable Campuses Conference
2. 7th Annual Renewable Energy Conference Saturday, March 21 Time: 8:30 am - 4 pm
3. USGBC workshops in Michigan
4. Developing Your Institution's Climate Action Plan – Pre-Conf Workshop
5. Understanding Sustainable Dining Options Webcast
6. Chill Out: Campus Solutions to Global Warming Broadcast
7. On-Site Energy Solutions 2009 Conference
8. Finger Lakes Project Curriculum Workshop
9. Lean and Green: The Sustainability Path in a Tough Economy
10. 2nd Annual Michigan Energy Conference will be held at Ferris State on April 16-17.

11. ICSW 2009 The Twenty-Fourth International Conference on Solid Waste Technology and Management

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. A Systems Approach to Studying Sustainability of Infrastructure Systems

The next speaker in the 2009 SFI Speaker Series will be by Asst Professor Amlan Murkerjee (CEE) on March 24, 138 Fisher, 3:00pm

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.

2. Two "Hitting Our STRIDE in Faculty Hiring" workshops from SFI's NSF-funded ADVANCE project

On Thursday, March 19 and Tuesday, March 31

Two workshops this month will address the legal aspects of faculty hiring and strategies and tactics for recruiting to improve diversity and excellence (STRIDE). Both workshops are part of SFI's NSF-funded ADVANCE project at Michigan Tech, which is working to broaden and improve hiring practices to ensure a diverse pool of applicants and faculty success.

On Thursday, March 19, an ADVANCE workshop and panel discussion will explore the legal aspects of faculty hiring. The panel will include Tech's new director of human resources, Anita Quinn; Sherri Kauppi, director of affirmative programs; and Paul Tomasi, legal counsel. The workshop is meant for anyone involved in faculty searches. Personal invitations are being sent, but if you are involved in faculty searches and don't receive an invitation, contact Eddie Jean Johnson at eddie@mtu.edu.

The University of Michigan's STRIDE committee, made up of senior faculty from across its campus, will present the second workshop on Tuesday, March 31. They will talk about steps they have taken to help maximize the likelihood that diverse, well-qualified candidates for faculty positions are identified, recruited, retained and promoted. They will do a morning session for those involved in faculty searches and an open presentation for the University community in the afternoon.

2. SFI Member Joan Chadde receives Michigan Space Grant Consortium Funding

Michigan Tech faculty and students were awarded nearly \$100,000 in funding by the Michigan Space Grant Consortium at its recent meeting in Ann Arbor. Joan Chadde, education program coordinator for the Center for

Science and Environmental Outreach and education program coordinator for the Western Upper Peninsula Center for Science, Mathematics and Environmental Education, received \$10,000 in the Public Outreach category.

2. Terra Preta @ MTU working group

The Terra Preta @ MTU Working Group — a community-university project designed to explore the feasibility of creating and distributing biochar, a carbon-negative soil amendment, in the local community — was referred to as an example of rigorous research and faculty-student collaborations in the February 2009 issue of *Environmental Health Perspectives*. The article, "Biochar: Carbon Mitigation from the Ground Up," discusses current research and applications in increased soil fertility and carbon mitigation when using biochar, which is created by heating wood or other organic material with a limited supply of oxygen, a process termed "pyrolysis" and used as a soil amendment. First-year Chemical Engineering major Amanda Taylor is quoted in the article, which also discusses the working group's efforts to study the production and use of bio-char as well as how terra preta might fit into a framework of community and global sustainability. A recent article in the biweekly magazine *Science News*, "For Kids: Getting the Dirt on Carbon" by Susan Gaidos, cites the Terra Preta Working Group and features a photo of the 55-gallon drum used by the group to produce biochar.

http://www.sciencenews.org/view/generic/id/41298/title/FOR_KIDS_Getting_the_dirt_on_carbon

Terra Preta @ MTU Working Group, a division of the Professional Communication Arts Enterprise in the Department of Humanities, is advised by Humanities Instructor and SFI member Michael Moore. If you are interested in joining this university and community effort — as a community member, as a student, staff, or faculty member — write to Michael Moore mmore@mtu.edu and ask to be added to terrapreta-l mailing list. More information on terra preta: <http://composing.org/hu2506summer/> <http://terrapreta.bioenergylists.org/> http://www.admin.mtu.edu/urel/news/media_relations/709/

3. Call for Posters! The Center for Water & Society World Water Day Poster Competition

Monday, March 23, 2009

Dow Building Lobbies 9:00 – 5:00

Graduate and undergraduate students are encouraged to become affiliated with the Center for Water and Society and enter the poster competition for cash awards. Two categories of prizes will be awarded: (1) Original Research (ex. thesis research) and (2) Coursework/Informational (ex. Course work or literature based research). More details and registration form at <http://www.mtcws.mtu.edu/education.html>

4. Sandra Postel, CWS World Water Day Guest Lecturer Global Water Project

Classroom visit to the Environmental Engineering Seminar Series

Dow 642 3:00 pm

Guest Lecturer at Great Events Lecture Series

Rosza Center 7:00 pm

Also sponsored by:

Van Evera Distinguished Lecture Series Endowment

Student Entertainment Board

Department of Civil & Environmental Engineering

Department of Social Sciences Environmental Policy Program

School of Forest Resources and Environmental Science

SUSTAINABILITY NEWS

1. Google PowerMeter shows how much energy is being used

Google is announcing Google PowerMeter, which will ultimately become an open platform for home energy information. PowerMeter is currently in internal beta testing. About four dozen Google employees have home energy monitors to record their power usage and their iGoogle home pages show them how much energy they are using. Underneath the PowerMeter gadget is an open systems platform that Google equates to Google Maps, the highly successful geospatial system that has become the foundation for thousands of applications.

2. Dow Corning to purchase Wind Energy

Dow Corning has announced an agreement to purchase more than 14,000 megawatt hours of wind energy through Consumers Energy's Green Generation program, making Dow Corning one of the largest private purchasers of renewable energy in Michigan. The energy purchased through this agreement is equivalent to nearly 100% of the electrical load at Dow Corning's headquarters. Dow Corning, a leading provider of materials to the solar and wind energy industries, also announced that it is investigating the installation of a solar array at its corporate headquarters.

3. Funding Available for Leading Graduate Student Visits

To support campus visits for leading graduate student candidates, the Graduate School has set aside \$1,000 per department, with a maximum of \$500 per student. Students who have applied for the highest degree offered by the program are eligible. Multiple requests may be submitted to utilize the \$1,000 any time prior to June 1. Special consideration will be given to requests that contribute to meeting the University's strategic goal of attracting and supporting a world-class and diverse student population. The Graduate School is available to assist departments with campus visits. For more information, contact Jodi Lehman or Jacque Smith at 487-2327.

SEMINARS

1. Center for Water & Society Colloquium, UN5990 Topic: Impacts, ecological systems

Paper: Wullschleger and Hanson, 2005, Sensitivity of canopy transpiration to altered precipitation in an upland oak forest: Evidence from a long-term field manipulation study

Dow Atrium on 6th Floor 4:00 pm

All are welcome to attend

2. Development of a gas-phase cleanup method for thermal desorption analysis of atmospheric semivolatile organic pollutants

Monday, March 16, 2009

Mark Rowe and Jennifer Mwangi

Dow 642 3:00 pm

3. Behavioral Assembly of Aquatic Metacommunities

Tuesday, March 17, 2009

Postdoctoral associate Christopher A. Binckley, Department of Ecology, Evolution and Natural Resources at Rutgers University,

Chem Sci 101 10:00 am

Binckley is a candidate for an ecology position in the Department of Biological Sciences.

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. Conservation Innovation Grants (CIG), USDA, and Natural Resources Conservation Service (NRCS)

Deadline: March 20, 2009 Amount \$2,000,000

NRCS requests applications for Conservation Innovation Grants (CIG) to stimulate the development and adoption of innovative conservation approaches and technologies. There are four CIG categories available in FY 2009: Natural Resource Concerns Category, Technology Category, Chesapeake Bay Watershed Category, and Grant Leveraging Category.

The purpose of CIG is to stimulate the development and adoption of innovative conservation approaches and technologies while leveraging the Federal investment in environmental enhancement and protection, in conjunction with agricultural production. CIG projects are expected to lead to the transfer of conservation technologies, management systems, and innovative approaches (such as market-based systems) into NRCS

technical manuals, guides, and references or to the private sector. CIG does not fund research projects. It is a vehicle to stimulate the development and adoption of conservation approaches or technologies that have been studied sufficiently to indicate a likelihood of success, and to be candidates for eventual technology transfer or institutionalization. CIG funds projects targeting innovative on-the-ground conservation, including pilot projects and field demonstrations.

<http://fundingopps.cos.com/alerts/117670>

2. DOE/NREL Innovative and Advanced Technologies and Protocols for Monitoring/Verification/Accounting (MVA), Simulation, and Risk Assessment of Carbon Dioxide (CO₂) Sequestration in Geologic Formations

Deadline 4/17/2009 Amount: \$24M for 12 to 24 awards

This FOA is specifically focused on development and successful application of innovative, advanced technology and protocols for

- monitoring, verification, and accounting (MVA) of CO₂ sequestration in geologic formations;
- simulating the behavior of geologically-sequestered CO₂; and
- conducting risk assessments associated with geologic CO₂ sequestration activity.

<http://tinyurl.com/d7jvh5>

3. NSF Virtual Organizations as Sociotechnical Systems

Deadline 5/26/09 Amount: \$24M for 12 to 24 awards

The Virtual Organizations as Sociotechnical Systems (VOSS) program supports scientific research directed at advancing the understanding of what constitutes effective virtual organizations and under what conditions virtual organizations can enable and enhance scientific, engineering, and education production and innovation.

<http://www.nsf.gov/pubs/2009/nsf09540/nsf09540.htm>

4. NSF Science of Science and Innovation Policy (SciSIP)

Deadline 9/9/09

Research funded by the program thus develops, improves and expands models, analytical tools, data and metrics that can be applied in the science policy decision making process. For example, research proposals may develop behavioral and analytical conceptualizations, frameworks or models that have applications across a broad array of SciSIP challenges, including the relationship between broader participation and innovation or creativity. Proposals may also develop methodologies to analyze science and technology data, and to convey the information to a variety of audiences.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501084

5. DoD ERDC BAA - Ecological Modeling (EL-30)

Deadline: Continuous

This research involves the use of traditional population and community dynamics models as well as spatially explicit, structured-population and individual oriented models for addressing a wide variety of biological problems.

<http://www.mvk.usace.army.mil/contract/other.asp>

6. DoD ERDC BAA - Industrial Process Optimization (CERL-6)

Deadline: Continuous

This research would identify new opportunities for industrial energy reduction achieved through new and innovative technologies, improved system or operational modifications, while simultaneously improving production efficiencies, reducing costs, or reducing toxic air emissions. Emphasis would be placed on implementing changes that could be applied to numerous military industrial and non-industrial installations.

<http://www.mvk.usace.army.mil/contract/other.asp>

7. DoD ERDC BAA - Construction Materials Made From Recycled Wastes (CERL-11)

Deadline: Continuous

Research is currently being conducted on construction materials made from recycled, post-consumer wastes with a primary focus on products made from recycled plastics. Required research on these polymeric materials includes, but is not limited to, studies concerning the relationship of fabrication techniques to end-product properties,

degradation mechanisms in various environmental exposures, long-term mechanical properties and durability in severe and varying environments, creep behavior at varied temperatures and loads, behavior and design of bolted connections, quality assurance techniques, design criteria for structural applications, and modeling techniques to predict material behavior in different loading situations over the life-cycle of the product.

<http://www.mvk.usace.army.mil/contract/other.asp>

8. Transportation Electrification

The Department of Energy's (DOE) National Energy Technology Laboratory (NETL) intends to issue, on behalf of the DOE Office of Energy Efficiency and Renewable Energy (EERE), Vehicle Technologies Program, a Funding Opportunity Announcement (FOA) entitled "Transportation Electrification." Projects selected under this requirement shall be used to establish widespread demonstration, development, evaluation, and education projects to accelerate the market introduction and penetration of advanced electric drive vehicles.

<http://fundingopps.cos.com/alerts/117663>

9. Automotive Battery Manufacturing Initiative

The Department of Energy's (DOE's) National Energy Technology Laboratory (NETL) intends to issue, on behalf of the DOE Office of Energy Efficiency and Renewable Energy (EERE), Vehicle Technologies Program, a Funding Opportunity Announcement (FOA) entitled "Automotive Battery Manufacturing Initiative." The planned funding opportunity announcement will seek applications for grants authorized under the Energy Independence and Security Act of 2007, section 136 and supports the construction of U.S. based battery manufacturing infrastructure for Li ion and other advanced batteries used in electric drive vehicles (EDVs). This work will enable production of various electric vehicle technologies by lowering the cost of battery packs for EDV batteries through high-volume manufacturing.

<http://fundingopps.cos.com/alerts/117664>

10. Microsystems Technology Office-Wide Broad Agency Announcement

DOD, Defense Advanced Research Projects Agency (DARPA) and Microsystems Technology Office (MTO) The Microsystems Technology Office's (MTO) mission is to exploit breakthroughs in materials, devices, circuits, and mathematics to develop beyond leading edge microsystems components with revolutionary performance and functionality to enable new platform capability for the Department of Defense. To execute this mission, MTO supports revolutionary research in electronics, photonics, MEMS, algorithms, and combined microsystems technology to deliver new capabilities to sense, communicate, energize, actuate, and process data and information for the war fighter.

<http://fundingopps.cos.com/alerts/117645>

11. Manufacturing Engineering Laboratory (MEL) Grants Program (FY 2009)

United States Department of Commerce (DOC) Technology Administration and National Institute of Standards and Technology (NIST)

Deadline: continuous Amount: \$25,000 to \$250,000

The Manufacturing Engineering Laboratory (MEL) Grants Program will provide grants and cooperative agreements in the following fields of research: Dimensional Metrology for Manufacturing, Mechanical Metrology for Manufacturing, Machine Tool and Machining Process Metrology, Intelligent Systems, and Information Systems Integration for Applications in Manufacturing. Financial support may be provided for conferences, workshops, or other technical research meetings that are relevant to the mission of the Manufacturing Engineering Laboratory. Specific information regarding program objectives can be found in the corresponding Federal Funding Opportunity for this announcement.

<http://fundingopps.cos.com/alerts/67552>

12. Enabling Technologies for High-Hydrogen Fueled Turbines: University Turbine Systems Research (UTSR) FY09

The Department of Energy (DOE) National Energy Technology Laboratory (NETL) intends to issue this FOA on behalf of the DOE Office of Fossil Energy. The Turbine Program addresses key technologies needed to enable the development of advanced turbines and turbine-based systems that will operate cleanly and efficiently when fueled with coal-derived synthesis gas and hydrogen fuels. Developing turbine technology to operate on coal-derived

synthesis gas and hydrogen is critical to the development of advanced coal based power generation technologies such as IGCC and the deployment of IGCC power plants that capture and sequester carbon dioxide.
<http://fundingopps.cos.com/alerts/117681>

13. Request for UTC?MiSTI Summer Scholar Project Proposals 2009 from Michigan Tech faculty and staff

Submission Deadline: 5 PM, March 20, 2009. Submit electronically to misti@mtu.edu

Award Announcement: By April 10, 2009 Anticipated Number of Awards: 6 to 10

The University Transportation Center for Materials in Sustainable Transportation Infrastructure is issuing a call to Michigan Tech faculty and qualified staff for the development of 2009 UTC Summer Scholar Program projects.

Proposed projects should address the following:

- Projects must seek to solve, or provide a solid understanding, of state and/or national transportation agency needs
- Projects must clearly address the attributes of sustainability (social, economic and environmental)
- Projects must support the theme of the UTC?MiSTI (role construction materials hold in creating more sustainable transportation infrastructure)
- Projects must have the potential to yield a base knowledge from which the proposer may pursue future funding opportunities
- Projects may provide parallel exploration to existing externally funded research, but clear distinction needs to be exhibited between the objectives and deliverables of the funded project and the proposed project
- Projects must provide a research experience for undergraduate students.

This is an internal call and will not require a transmittal. Up to two proposal submissions per proposer will be accepted for consideration.

Review Process: Proposals will be reviewed by the Center's Technical Advisory Council with recommendation by the Center's Research Task Group. Successful proposers will be asked to participate in a program orientation to students and faculty participating in the 2009 program.

Proposal Format: Submission package should include a maximum two page abstract/description of the proposed project, including a list and timeline of tasks and deliverables and a budget by major category including supplies, use fees, laboratory staff support and hourly student support.

Please include the proposers name and contact information. For more information regarding the UTC?MiSTI, visit the Center's Web site at www.misti.mtu.edu or contact Beth at 487.3154 or elizabeth@mtu.edu

JOBS & POST DOCS & INTERNSHIPS, FELLOWSHIPS, and SCOLARSHIPS

1. Northeast Consortium for Hydrologic Synthesis! Fellowship Opportunities Summer Synthesis Institute 2009

June 15 to July 25 in New York City

\$3500 stipend for the full 6 weeks, housing at Columbia University, and travel to San Francisco to present findings

Deadline March 31, 2009

The Northeast Consortium for Hydrologic Synthesis represents a broad cross-section faculty, postdoctoral fellows and students in the hydro-sciences and affiliated water policy and management sectors, dedicated to addressing "The 500-Year Challenge" - to understand the role of humans in shaping the character of hydrologic systems across the Northeast Corridor from year 1600 to 2100. The central question for this year's Institute is: What was the nature of hydro-systems across the Northeastern U.S. during the 19th century, how did hydrologic dynamics shape human decision-making and, in turn, how did human decision-making shape the hydrologic cycle during this timeframe?

The Summer Scholars will participate in a suite of fast-paced synthesis and integration research activities, guided by mentors, but largely self-directed by the Scholars themselves. The Institute is cast at a strategic level, with a primary aim being to help formulate the key elements, scientific questions, and hypotheses to be pursued by the Consortium at large. It is anticipated that the initial set of ideas and findings of the Institute will inspire further work by the Scholars at their home institutions, with the Consortium supporting follow-up communications and guidance to the group.

Participants will benefit from a unique opportunity to:

- * Engage in interdisciplinary, team-based research
- * Interact with nationally and internationally recognized leaders in the field
- * Gain important insights into generating hypotheses and asking integrative science questions
- * Formulate potential M.S., PhD, and post-doctoral research topics
- * Create a lasting network of professional relationships

WHO CAN APPLY: The Summer Institute is open to all levels of graduate and exceptional undergraduate students. Applications are welcome with interests in all fields and sub-fields of hydrology, environmental sciences and engineering, ecology, geomorphology, climatology, watershed science, geology, economics (ecological, natural resource, environmental, agricultural), forest and wildlife sciences, natural resource/environmental policy and management, history, geography/human geography, urban planning and development.

Application materials should be emailed to chermans@ccny.cuny.edu by March 31, 2009. CUAHSI is the Consortium of Universities Allied for Hydrological Sciences, Inc., representing more than 100 institutions. The Institute is funded by a grant from the NSF under the aegis of CUAHSI. <http://hydrosynthesis.ccny.cuny.edu/>

2. Intern, National Commission on Energy Policy

The National Commission on Energy Policy seeks an undergraduate or graduate summer intern to conduct research on pertinent energy policy topics. One student will be selected in a competition seeking innovative research proposals that address designated topics pertaining to current U.S. energy strategies. The student whose proposal is accepted will be invited to serve as an intern at NCEP in Washington, D.C. for a 10-week period during the summer. Interns will split their time between bringing their research proposal to fruition and engaging in NCEP's normal business activities, which includes energy policy and technology research, advocacy, and other related endeavors. Applications are due March 23, 2009.

<http://www.energycommission.org/ht/d/sp/i/4183/pid/4183>

3. Sustainable Food Program Manager, Williams College

Williams College (MA) is pleased to announce an opening for a Sustainable Food Program Manager reporting to the Director of the Zilkha Center for Environmental Initiatives. The manager will design and implement extra-curricular and operational programs and develop resources to support curricular initiatives. The position requires a candidate with vision and initiative who has the ability to work with colleagues across the campus and in the local community, and who will actively seek to develop relationships with external organizations. Candidates should have a minimum of a BA degree in Environmental Science, Biology, Sustainable Agriculture or a related field. Review of resumes will begin immediately and will continue until the position is filled.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175361987>

NEW RESOURCES

1. Two Eco Labels Web Sites

A new website Ecolabelling.org lists information on more than 200 labels worldwide. It offers basic information and frequently leads you back to the home page of the eco-label so you can find out more of what's behind the label – criteria used, etc. Ecolabelling.org

Consumers' Report's Greener Choices website has had an eco-label website for years that is also useful and includes about 150 North American eco-labels with information available on each. Both tools can prove handy when trying to make better environmental choices. <http://www.greenerchoices.org/eco-labels/eco-home.cfm>

2. Mladi Newsletter for scholarships, grants, internships, and more

This newsletter provides an overview of the latest updates about studying possibilities, scholarships, grants, trainings and conferences, various calls, working and internship opportunities worldwide.

Register for Newsletter at <http://www.mladiinfo.com/newsletter/subscribe-list.html>

3. New Website helps Teachers and Public Understand How Science Works

Many Americans' acquaintance with the scientific process is limited to a list they memorized from a textbook: Ask a question, form a hypothesis, conduct an experiment, collect data and draw a conclusion. Just in time for the Year

of Science 2009, a new NSF Web site offers a window to a better understanding about how dynamic and creative the scientific process really is. Understanding Science, accessible at <http://undsci.berkeley.edu/> is a collaborative project that draws students into real-life examples--from the structure of DNA to advances in fueling technology to the discovery of insulin--to illustrate what science is and how it works. The site even offers a chance to evaluate pursuits such as astrology and apply a set of criteria to determine whether or not they constitute science. Includes an interactive chart (<http://undsci.berkeley.edu/article/scienceflowchart>) showing how science works: the many motivations leading to exploration and discovery; the ways that ideas are tested out; the role of community analysis and feedback; and possible benefits and outcomes that result from scientific work.

EVENTS & CONFERENCES

1. Fourth Annual Smart and Sustainable Campuses Conference

April 5–7, 2009 College Park, MD

Critical aspects of sustainability to be addressed include operational solutions, smart growth policies, and strategies for achieving climate neutrality. The keynote speaker will be Christine Ervin, President, Christine Ervin/Company; Former President US Green Building Council; Former US Assistant Secretary of Energy. She speaks, writes and consults on two of the most promising market trends of our time: greening the built environment and clean energy. <http://www.nacubo.org/x10606.xml>

2. 7th Annual Renewable Energy Conference Saturday, March 21 Time: 8:30 am - 4 pm

Cost: Members \$35; Non-Members \$40; Students \$15

Energy issues are a critical concern facing both our environment and economy. A diversity of speakers and topics will be featured at the conference, highlighting ways to save energy and reduce the environmental impact of the energy we use. The break-out sessions will highlight green building practices, renewable energy for homes and businesses, and career opportunities in renewable energy. A display area will allow participants to interact directly with vendors and non-profit organizations. The conference is a great opportunity to expand your knowledge of renewable energy and meet other like-minded individuals. Set on 661 acres in Southwest Michigan, Pierce Cedar Creek Institute provides visitors with a unique exposure to a rare blend of diverse habitats including wetlands, forests, marshes, streams, lakes, and prairies. For more information please visit www.cedarcreekinstitute.org

3. See USGBC website for list of workshops near you

LEED Core Concepts & Strategies in Grand Rapids

Green Building Operations & Maintenance: The LEED Implementation Process in Big Rapids

LEED for New Construction and Major Renovations Technical Review in Southfield

LEED for Schools Technical Review in Lansing

<https://huskymail.mtu.edu/zimbra/?client=advanced#2>

4. Developing Your Institution's Climate Action Plan – Pre-Conf Workshop

April 5, 2009; U Maryland College Park

The American College & University Presidents Climate Commitment will host a pre-conference workshop at the 2009 Smart and Sustainable Campuses Conference entitled, "Developing Your Institution's Climate Action Plan – Evaluating the Carbon Reduction Efficacy of Different Mitigation Strategies." The workshop, will guide participants who have completed their greenhouse gas inventories in evaluating the cost/MTCO_{2e} of various carbon reduction strategies to assist them in developing their Climate Action Plans. Presenters will include Toni Nelson - AASHE's Climate Programs Manager, Jenn Andrews of Clean Air-Cool Plant, Michael Kempa from Honeywell, and Scott Lupin and Heather Lair from the University of Maryland's Office of Sustainability.

<http://www.nacubo.org/x10606.xml>

5. Understanding Sustainable Dining Options Webcast

April 15, 2009; 1 – 3pm Eastern

Academic Impressions will host "Understanding Sustainable Dining Options, a webcast that will teach participants how a dining services manager can begin to assess opportunities and implement change to become more sustainable. Topics to be discussed include defining sustainable dining, understanding the key categories of

sustainable Food Service, evaluating the levels of sustainable food to decide what is right for your campus, and developing a test site for better execution. Instructors include John Turenne, President and Founder of Sustainable Food Systems, and Owen Moore, the New York University Dining Services Director.

https://www.academicimpressions.com/web_conferences/0409-dining.php

6. Chill Out: Campus Solutions to Global Warming Broadcast

April 15, 2009; Online

The National Wildlife Federation will host Chill Out: Campus Solutions to Global Warming, a live webcast featuring practical solutions to global warming being implemented by higher education campuses around the country. Campuses who host the webcast on their campus will be recognized on NWF's website and in broadcast credits.

<http://www.nwf.org/campusEcology/index.cfm>

7. On-Site Energy Solutions 2009 Conference

April 27 – 29, 2009; Washington, D.C.

Infocast invites participants to its upcoming conference, "On-Site Energy Solutions 2009." The conference will bring together energy users, utilities, government policy makers, on-site solution providers and technology suppliers to explore the opportunities for implementing on-site energy solutions that will make American industry cleaner, more efficient, and more competitive and enable energy users to lock in stably priced and environmentally sound energy supplies. Keynote speakers will include Thomas R. Casten, the Chairman of Recycled Energy Development, and Marc Spitzer, the Commissioner of the Federal Regulatory Commission.

<http://www.infocastinc.com/index.php/conference/enersol>

8. Finger Lakes Project Curriculum Workshop

May 21-22, 2009; Ithaca College; Ithaca, NY

Ithaca College will host the Finger Lakes Project Workshop on integrating sustainability into the curriculum. The workshop will provide resources and training for educational professionals to encourage and support their efforts to integrate concepts of sustainability into their educational activities. This year's workshop theme is "sustainability and culture" and will include lectures and learning sessions on the following topics: eco and activist art, enthomusicology and culture, food culture and sustainability, international education for sustainability, sustainability education for K-12, and course design and assessment. http://www.ithaca.edu/fingerlakes_project/

9. Lean and Green: The Sustainability Path in a Tough Economy

May 27-29, 2009; Boston, MA

Academic Impressions will host "Lean and Green: The Sustainability Path in a Tough Economy," a conference that will offer sustainability coordinators and those charged with organizing sustainability efforts across campus the skills to create a roadmap for promoting a culture of sustainability on campus. The conference will teach participants how to develop and increase sustainability efforts, think and plan strategically for carbon neutrality, develop creative financing strategies for sustainability initiatives, implement innovative strategies for engaging students, faculty, and staff, and track the progress of sustainability efforts on campus.

<https://www.academicimpressions.com/conferences/0509-sustainability.php?q=2628x274891yT>

10. 2nd Annual Michigan Energy Conference will be held at Ferris State on April 16-17.

Guest speakers include Paul Proudfoot, MPSC, Jeff Goody, Vestas, Bill Harper, Chevron Energy Solutions, Michele Buckler, FTC&H, Stephen Hamstra, GMB Architects Engineers, and Dan Radomski, NextEnergy.

www.ferris.edu/mec

11. ICSW 2009 The Twenty-Fourth International Conference on Solid Waste Technology and Management

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

www.widener.edu/solid.waste