

SFI weekly newsletter for the week of October 5, 2009
A weekly service of SFI



SFI NEWS AND ANNOUNCEMENTS

1. Final call for posters, banquet reservations, Scholars of SFI nominations—Deadline extended to Mon Oct 12
2. Field Guide to Environmental Eng: Water, Sanitation, and Indoor Air by SFI members
3. Call for Posters: World Usability Day - U.P. (WUD-UP) Thursday, November 12, 2009
4. *Flow* CWS 2009-2010 Water Film Series Thursday, October 15, 2009 Forestry G002 7:00
5. Bias Literacy and Inventions on Campus—Thurs, Oct 15, 2009, 12:30 to 2:30 Ballroom A2

SUSTAINABILITY NEWS

1. Living, Meandering River Constructed
2. Central Michigan U Students Plant Three Organic Gardens
3. Wayne State U Offers Grad Certificate in Sustainable Engineering

SEMINARS

1. SFI Director David Shonnard (ChE) to speak Monday, October 19, 2009, 3:00 pm Dow 642
2. Student Contractor Awareness Night (SCAN)—Tuesday, Oct 20, 5:30 to 8:30 pm at the Noblet Building Atrium

FUNDING & AWARD OPPORTUNITIES

1. Green Scholarships: training future generations of environmental experts
2. Major Funding Coastal Fund (CF) (previously the Shoreline Preservation Fund)
3. Minnesota's Lake Superior Coastal Program Minnesota DNR Annual Grant Program (Section 306)
4. 2009 Page Prize for Environmental Sustainability
5. New DOE grad fellowship funding--Sec Steven Chu Announces \$12.5M for New Graduate STEM Fellowships

JOBS & POST DOCS, INTERNSHIPS, FELLOWSHIPS, and SCOLARSHIPS

1. Director of Sustainability, U Notre Dame
2. Director, Centre for Env & Sustainability, U Western Ontario
3. Postdoctoral Fellow, Wind Energy, Desert Research Institute
4. Two Profs, Environmental Building Technology, U Michigan
5. Asst Professor, Sustainability & Renewable Energy, U Louisville
6. Asst Prof, Environmental Science & Justice, Washington State U Vancouver
7. Asst Professor, Environmental Science, Alfred U
8. Adjunct Faculty Positions, Presidio School of Management
9. Adjunct Position, Environmental Science, Everest College
10. Instructor, Environmental Science, Brookdale CC

EVENTS & CONFERENCES

1. Call for Presentations--Wetlands in Service, 15th Annual Conference February 11-12, 2010
2. 2010 Great Lakes Commission Semi-Annual Meeting & Great Lakes Days, Washington, DC, February 21-24

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.

SFI NEWS AND ANNOUNCEMENTS

1. SFI Poster Session and Banquet, October 16, Rozsa

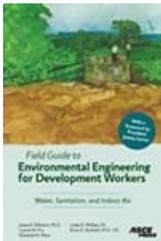
Final call for poster abstracts, banquet reservations, and Scholars of SFI nominations—Deadline extended to Monday, Oct 12



The deadline for submitting abstracts of your posters for the SFI 5th Annual Poster Session and Banquet is extended to Monday, October 12. Please send a 100 word abstract that describes your poster and explains how it relates to sustainability to me at dmheikin@mtu.edu. Include your title and all authors involved. See attached call for posters for list of prizes and a URL with pictures of last year's poster session. All poster presenters are invited to the banquet following the poster session. SFI regrets it cannot accommodate significant others. Reservations for the SFI Banquet will also close on Monday, October 12. All SFI Faculty should get their graduate student nominations for Scholars of SFI by Monday, October 12 as well.

2. Field Guide to Environmental Engineering: Water, Sanitation, and Indoor Air

by former and current SFI members James R. Mihelcic, Linda D. Phillips, Lauren M. Fry, Elizabeth M. Myre, Brian D. Barkdoll



Throughout the world, and even in the United States, engineers are tackling the challenges of sustainable development and public health—challenges that engineers are uniquely qualified to address. Yet engineers working abroad on development projects often lack the knowledge and information to design, plan, construct, operate, and maintain technology that is culturally, economically, and geographically appropriate—technology that takes into account gender, does not use significant amounts of fossil fuels, accounts for environmental conditions like water scarcity, and uses local construction materials. This readable and fully illustrated guide is a complete handbook for international engineering service projects that involve water supply and treatment, watersheds, sanitation systems, and indoor air quality.

3. Call for Posters: World Usability Day - U.P. (WUD-UP) Thursday, November 12, 2009 on Michigan Tech campus



World Usability Day
Making life easy!

The Tech WUD-UP committee is organizing several events on November 12th to celebrate World Usability Day around the theme of Designing for a Sustainable World: “Design from Cradle to Cradle.” We strongly

encourage undergraduate and graduate students to submit poster proposals that depict posters related to design for usability with a sustainable focus. WUD developed out of a need to promote an awareness that technology should serve people first. In order to humanize a world that uses technology as an infrastructure for education, healthcare, transportation, government, communication, entertainment, work and other areas, people need useable designs of sustainable objects, concepts, and policies.

Your poster should focus on how the design is user friendly (i.e. “usable”). Last’ year’s posters centered on the theme of transportation featured everything from Enterprise projects to designs for manuals written for a technical communication course. Your project might be in computer science, engineering, biology, graphic design, technical communication, transportation — anything that focuses on how the design is usable and sustainable.

Please print and display the flyer attached to the email alert for this newsletter for more information. You can also get in touch with Dr. Karla Kitalong at kitalong@mtu.edu or check out <http://www.worldusabilityday.org/>

4. Flow CWS 2009-2010 Water Film Series Thursday, October 15, 2009 Forestry G002 7:00 pm



FLOW - Irena Salina's award-winning documentary investigation into what experts label the most important political and environmental issue of the 21st Century - The World Water Crisis. View and Display the flyer attached to the email alert for this newsletter. The film is sponsored by the Michigan Tech Center for Water and Society.

<http://www.flowthefilm.com>

5. Bias Literacy and Inventions on Campus—Thursday, October 15, 2009, 12:30 to 2:30 in Ballroom A2

Faculty and Staff are encouraged to attend a special session on Bias Literacy and Interventions. The session features presentations by Dr. Daryl Chubin, Director of the Center for Advance Science & Engineering Capacity at the American Association for the Advancement of Science and Dr. Ruta Sevo, former Program Director for Research on Gender in Science and Engineering, at the National Science Foundation. These presentations are part of the SFI ADVANCE program sponsored by NSF. No preregistration is required. However, if you plan to attend and have any specific questions you would like addressed, either in the lecture or in a breakout session, please email them to Eddie Jean Johnson (eddie@mtu.edu), who will forward them to the speakers. See poster attached to email alert for this newsletter.

SUSTAINABILITY NEWS



Schematic of
meandering river

1. Living, Meandering River Constructed

In a feat of reverse-engineering, Christian Braudrick of UC Berkeley and three coauthors have successfully built and maintained a scale model of a living meandering gravel-bed river in the lab. Their findings point to the importance of vegetation to reinforce the banks and, surprisingly, to the importance of sand in healthy meandering river life. More at

http://www.nsf.gov/news/news_summ.jsp?cntn_id=115660&WT.mc_id=USNSF_51

This is an NSF News item.

2. Central Michigan U Students Plant Three Organic Gardens

Central Michigan University's Campus Grows student organization has planted three organic vegetable gardens on campus. Campus Grows consists of four students that have led the initiative and spent the summer tending to the gardens. The crops are sold at farmers markets and a coffee house. Some of the food is donated to soup kitchens and food banks as well. Extra plots are sold to students interested in having a personal garden and proceeds go to purchase seed, fencing, and other needs.

<http://www.cm-life.com/2009/09/22/cmu-campus-garden-provides-organic-food/>

3. Wayne State U Offers Grad Certificate in Sustainable Engineering

The Wayne State University (MI) College of Engineering has begun offering a graduate certificate program in sustainable engineering. The program is intended for both current graduate students as well as the technical and scientific workforce of the metro Detroit region. The new certificate requires 13 credit hours of sustainable engineering education in chosen courses from all of the engineering departments. Students can choose from such courses as "Water Supply and Wastewater Engineering," "Ethics in Engineering and Construction" and "Alternative Energy Technology System and Design. <http://media.wayne.edu/2009/09/08/wsu-offers-graduate-certificate-program-in-sustainable> See also AASHE site http://www.aashe.org/resources/grad_engineering.php

SEMINARS

1. SFI Director David R. Shonnard (ChE), Sustainable Monday, October 19, 2009, 3:00 pm

Environmental Engineering Seminar Series Dow 642

2. Student Contractor Awareness Night (SCAN)--Tuesday, Oct 20, 5:30 to 8:30 pm at the Noblet Building Atrium

The Student Contractor Awareness Night (SCAN) put on by the AGC of Michigan, with a presentation by Gavin Gardi, Sustainable Program Manager, from The Christman Company will be held Tuesday, October 20 2009 from 5:30 pm to 8:30 pm at the R. J. Noblet Forestry & Wood Products Building Atrium on the campus of Michigan Technological University. The presentation will be on sustainable construction and will highlight the World's First

Double Platinum LEED Award project. Prior to the presentation there will be dinner at 6:00 pm with contractor representatives. There will also be a short web cast by Ken Simonson, AGC Economist. Please let Kris Mattila (487-2523_mattila@mtu.edu) know by Tuesday, October 13, 2009 if you plan to attend as a count is necessary for dinner.

The goal of SCAN is to bring together construction focused students with established construction professionals. SCAN has been held in the Lower Peninsula since 1984. It has been several years since there has been a SCAN event in the UP and the first time at Michigan Tech. Students from Michigan Tech and Northern are invited. Contractors from across the UP and northern Wisconsin have been invited. This is a great opportunity to learn about sustainable building construction and to network with construction professionals.

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. SFI Director, John Sutherland, will sign the transmittal sheet 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. Green Scholarships: training future generations of environmental experts

Awarded Amount to Date: \$70270 Deadline continuous

This project, administered in a center for ecology, is initiating an S-STEM Green Scholarships program for talented transfer students with demonstrated financial need to matriculate from 2-year colleges to a 4-year degree program in an environmental science discipline. The Green Scholarship program builds on existing support services and programs to prepare the Green Scholars to complete a baccalaureate degree and enter the workforce or graduate school equipped to solve complex environmental problems. Scholars enter a living-learning community that includes common housing and courses to enhance research and problem-solving skills. To additionally build a sense of community, scholars have access to a central study room that houses undergraduate scholarship programs. A multifaceted mentoring network of peers, faculty and staff is helping to ensure that academic and professional goals are met and that the scholars perform at the best of their abilities. Workshops on professional development and career choices are provided, and governmental partners present seminars on internship and employment opportunities. Scholars are also offered opportunities to partner with research faculty mentors, and to experience vocational training through internships at seven partner facilities. Award Abstract #0850280--

<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0850280>

2. Major Funding Coastal Fund (CF) (previously the Shoreline Preservation Fund)

Sponsor University of California, Santa Barbara

Amount \$1,001 The CF grants awards for up to two quarters of funding per award.

Deadline Oct 02, 2009

Applications are welcomed from public and private entities seeking to carry out the proposed project within the shoreline of the University of California at Santa Barbara. Additionally, applicants may propose projects pertaining to shoreline areas within the Santa Barbara region if a significant relevance to UCSB's shoreline and the CF Mission Statement can be demonstrated (educational benefit to UCSB student body). Funding Type Equipment or Materials Acquisition or Facility Use

Bookmark Url <http://fundingopps.cos.com/cgi-bin/fo2/getRec?id=50097>

<http://spf.as.ucsb.edu/funding.php> Email coastalfund@gmail.com <http://fundingopps.cos.com/alerts/50097>

3. Minnesota's Lake Superior Coastal Program Minnesota Department of Natural Resources

Annual Grant Program (Section 306)

Targeted for studies, plans, research, administration, and education & interpretation projects that directly relate to Lake Superior coastal resources. All studies and design project sites must be located within the coastal boundary.

Annual Grant Program (Section 306A)

Targeted for land acquisition, low-cost construction, shoreline rehabilitation and modification to increase public access, engineering designs, report or specifications directly related to the construction of a project.

Short Term Action Request Grants (STAR)

A limited amount of funds to serve short term, more immediate requests for grant dollars from the coastal community. STAR projects are short in duration and small in scope.

<http://www.dnr.state.mn.us/waters/lakesuperior/>

4. 2009 Page Prize for Environmental Sustainability

Deadline and Submission Information: December 4, 2009. Email submissions electronically to: pageprize@moore.sc.edu.

One Grand Prize will be awarded. The Grand Prize will be \$1,000, plus a framed print of Aegean Sea #6 (shown here) as certifying the award. Honorable Mention prizes will also be awarded at levels of \$250 each. Each finalist will receive a print of Aegean Sea #6. The winners will be chosen by a three member faculty committee from the University of South Carolina. An ongoing database of top submissions will be made available on the Moore School's website for adoption by business faculty around the world to utilize in their home institutions. Top submissions will also be accessible through the Moore School's Partner Page on the Apsen Institute's caseplace.org. To view last year's winning curricula and find additional information about the Page Prize, please visit http://mooreschool.sc.edu/moore/RES/Page_Prize/index.html or <http://www.caseplace.org/d.asp?d=4036>. For questions about the competition, please email pageprize@moore.sc.edu or call 803-777-3176.

5. New DOE grad fellowship funding--Secretary of Energy, Dr. Steven Chu Announces up to \$12.5 Million in Recovery Act Funding for New Graduate Fellowships in Science, Mathematics and Engineering

New Funding Highlights the Administration's Commitment to Empowering Students to Choose Careers in Science

Washington, DC - U.S. Energy Secretary Steven Chu announced today that up to \$12.5 million in funding from the American Recovery and Reinvestment Act will be awarded in early 2010 to support at least 80 graduate fellowships to U.S. students pursuing advanced degrees in science, mathematics, and engineering through the newly created DoE Office of Science Graduate Fellowship program. The goal of the fellowship program is to encourage outstanding students to pursue graduate degrees in physics, chemistry, biology, mathematics, engineering, and environmental and computer sciences - fields that will prepare students for careers that can make significant contributions in discovery driven science and science for national needs in energy and the environment.

"Training the next generation of U.S. scientists and engineers is critical to our future energy security and economic competitiveness," said Secretary Chu. "This Fellowship is part of the Administration's effort to encourage students to direct their talents towards careers in science and our nation's next technology revolution."

To be eligible for the Fellowship, applicants must be U.S. citizens and currently a first or second year graduate student enrolled at a U.S. academic institution, or an undergraduate senior who will be enrolled as a first year graduate student by the fall of 2010. Applicants must be pursuing graduate study and research in the physical, biological, engineering and computational sciences.

Each fellowship award will be \$50,500 per year for three years to provide support for tuition, living expenses, research materials and travel to research conferences. Fellowships will be awarded on the basis of peer review. Applicants may begin submitting applications on September 30, 2009. Completed applications are due November 30, 2009.

<http://www.scied.science.doe.gov/SCGF.html>

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

1. Director of Sustainability, U Notre Dame

The University of Notre Dame (IN) is seeking a director of sustainability. Reporting to the vice president for business operations, the new director will build institutional learning capacities to support continuous improvement in building design and operations, landscaping, procurement, energy and water conservation, waste disposal and recycling, and service provision. The ultimate goal will be to enact significant behavior change in individuals and departments through the implementation of tested sustainability practices. A bachelor's or master's degree is required, as is 10 years of related experience. The position is open until filled.

<https://jobs.nd.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1254486725953>

2. Director, Centre for Env & Sustainability, U Western Ontario

The University of Western Ontario invites applications or nominations for a senior-level faculty appointment as the first Director of the Centre for Environment and Sustainability (CES). The selected candidate will be appointed with

tenure either as Professor or Associate Professor in an appropriate academic Department. The initial term of the Directorship will be for a period of 5 years. The Director will be expected to lead a vigorous and internationally competitive research program, to supervise graduate and undergraduate student research, and to participate in teaching at the graduate and undergraduate levels. In addition, a significant portion of effort will be directed to leading, developing, and administering CES. The successful candidate should have an excellent research record in a relevant area and demonstrate the high level of vision, leadership, and resourcefulness appropriate to the position of Director. Consideration of applications will begin on November 15, 2009.

<http://environmentalresearchweb.org/cws/job/J000004409>

3. Postdoctoral Fellow, Wind Energy, Desert Research Institute

The Desert Research Institute, the environmental research arm of the Nevada System of Higher Education, is seeking a post doctoral research associate in the area of renewable energies - wind energy. The appointment is of one year duration and could be extended for two additional years based on performance and funding availability. The candidate will participate in and lead individual tasks within ongoing and future planned wind assessment studies using data from meteorological towers and conducting high-resolution mesoscale and microscale modeling as well as in subsequent analysis and reporting. Candidates will be evaluated on communication skills, ability to conduct original research, proposal and publication record, grant and contract activities, ability to work both collaboratively and independently, and personal area of expertise that complements existing staff. Significant opportunities exist for the candidates to develop their own research ideas and to pursue additional external funding to investigate these ideas in addition to contributing to existing projects. The position is open until filled.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175392555>

4. Two Profs, Environmental Building Technology, U Michigan

The University of Michigan A. Alfred Taubman College of Architecture and Urban Planning has announced plans to make two professorial appointments in environmental technology. One position is tenured or tenure-track faculty member in environmental building technology that will have a focus on passive and active building performance, energy-efficient building, and building systems integration. The second position is a tenure-track assistant professor in environmental building technology that will have a focus on sustainable building environments. Desirable candidates will have complimentary expertise in one or more of the following areas: sustainable design, energy efficient construction incorporating green materials, and ecological air- and water-handling systems. The demonstrated ability to conduct research and contribute to doctoral studies in this area is desired for both positions. Candidates for either position should have a record of teaching, scholarship, publication, and/or related professional experience. A Ph.D. is desirable. Review of applications will begin January 2, 2010 with interviews planned for February and March 2010. <http://chronicle.com/jobs/0000610093-01>

5. Asst Professor, Sustainability & Renewable Energy, U Louisville

The Department of Mechanical Engineering at the University of Louisville (KY) invites applications for one tenure track assistant professor position in the area of sustainability and renewable energy. Applicants should have an earned doctorate in mechanical engineering or a related field prior to the start date. Applicants should demonstrate an ability to establish a program of externally-supported research and mentor doctoral students in their research area. Preferred areas of expertise include, but are not limited to, active and passive solar space conditioning, sustainable building technology, solar thermal power, photovoltaics, energy storage, wind energy, biofuels and hydropower. Review of applicants will begin on December 15, 2009.

<http://chronicle.com/jobs/0000611102-01>

6. Asst Prof, Environmental Science & Justice, Washington State U Vancouver

The Science Programs at Washington State University, Vancouver invite applications for a tenure-track assistant professor position in environmental science and justice. The University seeks candidates whose research focuses on scientific issues that disproportionately affect populations along cultural, economic, and/or racial boundaries. Required qualifications include a Ph.D. in a scientific discipline, research addressing environmental justice issues, and the ability to establish an externally funded research program. Teaching duties may include undergraduate and graduate courses, plus mentoring graduate students and directing graduate student research. Review of

completed applications will begin on November 15, 2009 and continue until the position is filled.
<http://chronicle.com/jobs/0000609739-01>.

7. Asst Professor, Environmental Science, Alfred U

Alfred University's (NY) College of Liberal Arts and Sciences invites applications for a tenure-track assistant professor in environmental science beginning August 2010. Responsibilities will include teaching introduction to environmental sciences, research methods, data analysis, and special topics related to a particular interest and experience. Expertise in conservation biology, ecology, or natural resources is preferred, but other areas of environmental science will be considered. Review of applications will begin November 2, 2009 and continue until the position is filled. <http://chronicle.com/jobs/0000611189-01>

8. Adjunct Faculty Positions, Presidio School of Management

Presidio School of Management (CA) is seeking several adjunct faculty positions for courses across the curriculum, with particular emphasis in economics, marketing, human resources, finance, accounting, and capital markets. Qualifications include a doctoral degree in the field of management, public policy, economics, or related interdisciplinary fields such as environmental science, sustainable systems, or sustainable design. Candidates should also have a critical understanding of the relationship between the course subject, systems, and sustainability. <http://chronicle.com/jobs/0000610160-01>

9. Adjunct Position, Environmental Science, Everest College

Everest College (MO) is seeking an adjunct instructor to teach environmental science. The position requires teaching and maintaining all aspects of instructing a class in environmental science. Qualified candidates should have a master's degree in environmental science and teaching experience is preferred. The position is open until filled. <http://www.higheredjobs.com/search/details.cfm?JobCode=175392502>

10. Instructor, Environmental Science, Brookdale CC

Brookdale Community College (NJ) invites applications for an environmental science instructor to begin September 2010. The College seeks colleagues who have a commitment to working with a diverse student population, collaborative learning, using technology in the classroom, and distance education. This is a full-time, 10-month, tenure track position. The successful candidate will be responsible for teaching environmental science courses. A master's degree in environmental science, marine biology, or oceanography is required. Applications are due by December 15, 2009. <http://www.higheredjobs.com/search/details.cfm?JobCode=175392854>

EVENTS & CONFERENCES



Wetlands in Service

15th Annual Conference

*February 11-12, 2010
Eau Claire, Wisconsin*



1. Call for Presentations--Wetlands in Service, 15th Annual Conference February 11-12, 2010

Wisconsin Wetlands Association Eau Claire, Wisconsin

Abstract Deadline: Monday, November 9, 2009

<http://www.wisconsinwetlands.org/2010conference.htm>

2. 2010 Great Lakes Commission Semi-Annual Meeting & Great Lakes Days, Washington, DC, February 21-24, 2010

<http://www.glc.org/greatlakesday/>