

SFI weekly newsletter (for the week of January 26)
A weekly service of SFI

Details of these headlines will soon be available at www.sfi.mtu.edu

SFI NEWS AND ANNOUNCEMENTS

1. Call for Posters! The Center for Water & Society <http://www.mtcws.mtu.edu/education.html>
2. 2009 Sustainable Futures Institute Speaker Series
<http://www.admin.mtu.edu/urel/ttoday/previous.php?issue=20090129&id=7146&nav=1#2>

SEMINARS

Global City to discuss Fry, Watkins, and Mihelcic EST sanitation article-- Pizza and drinks!

FUNDING & AWARD OPPORTUNITIES

1. Request for Coastal Zone Management grant proposals www.michigan.gov/deqcoastal
2. NSF Robert Noyce Teacher Scholarship Program <http://www.nsf.gov/pubs/2009/nsf09513/nsf09513.htm>
3. Joyce Foundation Environment Grants <http://www.joycefdn.org/GrantList/HowToApply.aspx>
4. EPA Novel Approaches to Improving Air Pollution Emissions Information
http://es.epa.gov/ncer/rfa/2009/2009_star_air_pollution.html
5. Lawrence Foundation http://www.accessmylibrary.com/coms2/summary_0286-22343062_ITM
6. DoD ERDC BAA - Groundwater (CHL-7) <http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>
7. DoD ERDC BAA H&H GIS/Database Development (CHL-9)
<http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>
8. DoD ERDC BAA - Hydrology (CHL-8) <http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>
9. 2009 Volunteer Stream Monitoring Grants Now Available <http://www.micorps.net/app/gap09>
10. Environmental Quality Awards - Region 2 <http://fundingopps.cos.com/alerts/117190>
11. Environmental Awards - Region 9 <http://fundingopps.cos.com/alerts/117191>
12. National STEM Education Distributed Learning (NSDL) - NSF 09-531 <http://fundingopps.cos.com/alerts/76632>

JOBS & POST DOCS

1. Director, Center for the Environment, Mount Holyoke College
<http://www.higheredjobs.com/search/details.cfm?JobCode=175356852>
2. Sustainable Businesses & Communities Prgm Dir, Goddard College
<http://chronicle.com/jobs/id.php?id=0000589189-01&pg=s&cc=>
3. Researcher/Writer, Second Nature <http://www.secondnature.org/EmploymentOpportunities.html>
4. Director, Environmental Law Program, Indiana U
<http://www.higheredjobs.com/search/details.cfm?JobCode=175356852>
5. Faculty, Agriculture, Food, & the Environment, Tufts U
<http://chronicle.com/jobs/id.php?id=0000589921-01&pg=s&cc=>
6. Tenure-track position in Applied Sustainability - Civil Engineering
www.cwe.queensu.ca

INTERNSHIPS, FELLOWSHIPS, SCHOLARSHIPS & OTHER STUDENT OPPORTUNITIES

1. New Michigan Tech Dean's Fellowship <http://www.gradschool.mtu.edu/financial/deans-fellowship.html>

NEW RESOURCES

1. Practical Guide to Reducing the Campus Carbon Footprint
<http://appa.org/files/PDFs/FINAL09APPASustainabilityGuide.pdf>

2. Publication: The Role of IT in Campus Sustainability Efforts

<http://connect.educause.edu/Library/Abstract/TheRoleofITinCampusSustai/48000?time=1233342315>

EVENTS & CONFERENCES

1. Alliance to Save Energy's 6th annual Great Energy Efficiency Day- Keys to Unlocking a New Era of Energy Efficiency

www.ase.org/geed

2. Forest-based Bioenergy for Michigan's Upper Peninsula

www.forest.mtu.edu/bioenergyworkshop.pdf

3. AASHE Member Discounts for RETECH Higher Ed Pavilion

<http://www.aashe.org/membership/discounts.php/#events>

4. International Conference on Food Security and Environmental Sustainability FSES 2009

(<http://www.agri.iitkgp.ernet.in/fses2009/index.html>)

5. Education for the 21st Century

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

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 activities and achievements. Please send such items and 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. 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>

2. 2009 Sustainable Futures Institute Speaker Series off to a fine start

The first speaker in the series, Mike Reid, manager of the L'Anse Electric Company power plant, spoke on Tuesday, Jan. 27, about his plant use of renewable Bioenergy instead of coal. A video of that talk will be on the SFI website in 2 weeks. See also <http://www.admin.mtu.edu/urel/ttoday/previous.php?issue=20090129&id=7146&nav=1#2>

The next presentation of the 2009 Sustainable Futures Institute Speaker Series will be Assistant Professor Amlan Murkerjee (CEE) on March 24. His talk is entitled "A Systems Approach to Studying Sustainability of Infrastructure Systems."

SEMINARS

Global City to discuss Fry, Watkins, and Mihelcic EST sanitation article-- Pizza and drinks!

Date: Tuesday February 3rd Place: Dillman 214 Time : 6-7pm

Global City will meet in Dillman 214 on Tuesday February 3rd to discuss "Challenges to Meeting the Millennium Development Target for Sanitation." Guest speaker PhD candidate Lauren Fry will present findings drawn from her research.

Abs: Challenges to Meeting the Millennium Development Target for Sanitation

Discussion will be based on research that was published in a special issue of Environmental Science and Technology on world water resources (Fry, Mihelcic, & Watkins, 2008). Following a review of literature, several challenges to sanitation coverage were identified, and indicators were chosen to evaluate the effect the challenges

may have on sanitation coverage. These challenges were related to economics, institutional systems, societal values, and water resources. Indicators were analyzed using correlation analysis for each indicator and principal components for several of the more important indicators. We found that the indicators GDP (PPP), Social and Institutional Capacity, Foreign Direct Investment, Gender Empowerment Measure, Corruption Perception Index were all predictors of sanitation coverage. On a country level scale, water availability was not correlated to sanitation coverage. However, a 0.5° grid scale analysis of the impacts of sanitation technology choice and future numbers of people served on water resources revealed that up to 46 million people could move into the severe water stress category (using more than 40% of renewable resources) if the world reaches 100% coverage in 2025 and up to 8.7 million people could be added to severe stress category if the Millennium Development Goals are met by 2015. These figures depended on the type of sanitation technology used to meet the demand, and a large proportion of these people were in urban settings where sewers are most commonly used.

Fry, L. M., Mihelcic, J. R., & Watkins, D. W. (2008). Water and Nonwater-related Challenges of Achieving Global Sanitation Coverage. *Environmental Science and Technology*, 42(12), 4298-4304.

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. Request for Coastal Zone Management grant proposals

Michigan Coastal and Estuarine Land Conservation Program Grants

The application deadline is May 1, 2009.

Maximum amount is \$3,000,000 for 18 months: Matching funds required (cash, in-kind)

Projects must be located within the State of Michigan's CELCP boundary as defined in Michigan's Draft CELCP Plan.

The Michigan Coastal Management Program, Department of Environmental Quality, is accepting applications for Coastal Zone Management grant projects that would start January 1, 2010. The application form and information on the funding opportunity is available through the "FY 2010 Coastal Management Grants - Request for Proposals" link on the Program webpage at www.michigan.gov/deqcoastal.

Applicants for CELCP funding are strongly encouraged to review Michigan's Draft CELCP Plan and the "Project Ranking Factors and Scoring Guidance" contained therein. Further information regarding the goals and administrative procedures for CELCP at the national level can be found at:

<http://coastalmanagement.noaa.gov/land/welcome.html>

The Federal Register notice announcing the FY 2010 CELCP funding competition which includes the full details of the competition, along with project narrative and budget templates and the CELCP checklist, are posted on the Funding Opportunities page of the CELCP website,

http://www.coastalmanagement.noaa.gov/land/celcp_fundingop.html

The application form and information on the funding opportunity is available through the "FY 2010 Coastal Management Grants - Request for Proposals" link on the Program webpage at www.michigan.gov/deqcoastal

2. NSF Robert Noyce Teacher Scholarship Program

LOI: 2/10/2009 (opt); Full proposal: 3/10/2009

\$75K-\$1.5M

The Robert Noyce Teacher Scholarship Program seeks to encourage talented science, technology, engineering, and mathematics majors and professionals to become K-12 mathematics and science teachers. The program provides funds to institutions of higher education to support scholarships, stipends, and academic programs for undergraduate STEM majors and post-baccalaureate students holding STEM degrees who commit to teaching in high-need K-12 school districts. A new component of the program supports STEM professionals who enroll as NSF Teaching Fellows in master's degree programs leading to teacher certification by providing academic courses, professional development, and salary supplements while they are fulfilling a four-year teaching commitment in a high need school district. This new component also supports the development of NSF Master Teaching Fellows by providing professional development and salary supplements for exemplary math and science teachers to become Master Teachers in high need school districts. <http://www.nsf.gov/pubs/2009/nsf09513/nsf09513.htm>

3. Joyce Foundation Environment Grants

Deadline 4/13/2009

The foundation will seek and support funding opportunities to restore and protect the Great Lakes in the following areas: The foundation will seek and support funding opportunities to restore and protect the Great Lakes in the following areas:

1. On the ground protection and restoration efforts that can be monitored, documented, and replicated elsewhere
2. Efforts to drive policy development by combining the work of policy advocates with on the ground practitioners, including nontraditional stakeholders
3. Efforts to advocate at the local, state, and national levels for these collectively developed policies.

The foundation will consider proposals at the local, state, regional, and national levels that address the following four areas:

1. Reduce polluted, non-point source runoff from agricultural lands and urban/suburban/exurban lands
2. Protect and restore critical habitats such as wetlands through improved hydrology and other means. Critical habitats exist in developed, rural, and undeveloped landscapes, and projects will be evaluated based on their value for demonstrating successful restoration methods, protecting critical areas for wildlife and water quality, public attraction and accessibility, and political significance
3. Improve coastal health particularly through the increased use of green infrastructure and through new means of financing conventional infrastructure
4. Implement the Great Lakes-St. Lawrence River Basin Water Resources Compact

The Global Energy Transition: The Midwestern Role - The foundation will consider proposals in three areas:

1. Efforts to speed the deployment of advanced coal technologies with carbon capture and storage capability
2. Efforts to support the implementation of local, state and regional climate and energy plans
3. Efforts to improve the design, delivery, and evaluation of energy efficiency programs that increase customer participation and per customer energy savings

<http://www.joycefdn.org/GrantList/HowToApply.aspx>

4. EPA Novel Approaches to Improving Air Pollution Emissions Information

4/21/2009

\$500K

This solicitation seeks to support research that will build on past improvements and strengthen the understanding of air pollution sources and how they affect current and near-term future air quality.

http://es.epa.gov/ncer/rfa/2009/2009_star_air_pollution.html

5. Lawrence Foundation

Deadline 4/30/2009

focused on making charitable contributions and grants to support educational, environmental, health, and other causes. http://www.accessmylibrary.com/coms2/summary_0286-22343062_ITM

6. DoD ERDC BAA - Groundwater (CHL-7)

Continuous. Proposals may be submitted at any time.

Research addressing the following areas: electronic navigation charting; integration of GIS/database and H&H models; watershed management for erosion control; larger river system management for flood control navigation; and visualization techniques. The goal of the program is the development of modeling techniques, including remedial alternative simulation, for optimal design and operation of the site cleanups.

<http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>

7. DoD ERDC BAA H&H GIS/Database Development (CHL-9)

Continuous. Proposals may be submitted at any time.

research addressing the following areas: electronic navigation charting; integration of GIS/database and H&H models; watershed management for erosion control; larger river system management for flood control navigation; and visualization techniques.

<http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>

8. DoD ERDC BAA - Hydrology (CHL-8)

Continuous. Proposals may be submitted at any time.

Specific research involves the following areas:

- remote sensing and quantification of precipitation;
- development of spatially varying precipitation hydrology models;
- visualization of results for hydrology and dam break models;
- rapid procedures for flood forecasting;
- GIS interfacing with existing and new hydrology models;
- groundwater surface water interaction processes; and
- interfacing watershed models with water quality and other environmental models.

<http://www.mvk.usace.army.mil/contract/docs/FY2008.BAA.pdf>

9. 2009 Volunteer Stream Monitoring Grants Now Available

MiCorps is pleased to announce the release of two grant opportunities for volunteer stream monitoring in Michigan: the

Volunteer Stream Monitoring Grant Program and the
Michigan Clean Water Corps (MiCorps)
<http://www.micorps.net/app/gap09>

Volunteer Stream Monitoring Start-Up Grant Program
Michigan Clean Water Corps (MiCorps)
<http://www.micorps.net/app/startup09>

10. Environmental Quality Awards - Region 2

United States Environmental Protection Agency (EPA)

<http://fundingopps.cos.com/alerts/117190>

11. Environmental Awards - Region 9

United States Environmental Protection Agency (EPA)

<http://fundingopps.cos.com/alerts/117191>

12. National STEM Education Distributed Learning (NSDL) - NSF 09-531

National Science Foundation (NSF)

Directorate for Education and Human Resources (EHR)

Division of Undergraduate Education (DUE)

<http://fundingopps.cos.com/alerts/76632>

JOBS & POST DOCS

1. Director, Center for the Environment, Mount Holyoke College

Mount Holyoke College (MA) invites applications for the position of Leslie and Sarah Miller Director of the Center for the Environment. Reporting to the Dean of Faculty, the Director will head the Center and will be responsible for overseeing and expanding the College's curricular and programmatic initiatives in environmental education and campus sustainability. The Director will play a leadership role in helping to build upon and highlight the College's long-standing commitment to environmental awareness and engagement. A Ph.D is required. Review of applications will begin February 25, 2009.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175356852>

2. Sustainable Businesses & Communities Prgm Dir, Goddard College

Goddard College (VT) seeks a Program Director for the Master's in Socially Responsible Businesses and Sustainable Communities program. The Director will commence work in the summer of 2009 and will be responsible for program operations including: hiring, training, supporting, retaining, coordinating, and evaluating faculty; consulting with staff to recruit and review prospective students; counseling students regarding program norms and personal issues; ensuring coherence and harmonious development of the program; and working with students, faculty, and staff to design and implement intensive residencies. Requirements include a terminal degree in a relevant field. Applicants who submit their materials by March 1, 2009 will be given primary consideration.

<http://chronicle.com/jobs/id.php?id=0000589189-01&pg=s&cc=>

3. Researcher/Writer, Second Nature

Second Nature is seeking a part-time temporary researcher/writer (20 hours per week for 10 weeks) to develop a comprehensive overview and assessment of all existing funding mechanisms that higher education institutions can use to implement sustainability initiatives projects on their campuses. This is an initiative to develop content for a web site that will contain up-to-date, comprehensive information on financing and funding alternatives for sustainability projects, an assessment of their relative merits and hurdles, and a description of the financial benefits of investing in sustainability projects. Qualifications include a Bachelor's degree in finance, communications, sustainability, or a related field. <http://www.secondnature.org/EmploymentOpportunities.html>

4. Director, Environmental Law Program, Indiana U

The Indiana University Maurer School of Law-Bloomington seeks to fill a newly funded position of Director for its Environmental Law Program. The Director will, in conjunction with the environmental faculty, manage the daily activities of the Environmental Law Program, develop new projects, and conduct outreach efforts with state and regional environmental and conservation organizations. The Director will also coordinate the activities of the law school's program with Bloomington's Conservation Law Center, which operates the law school's conservation law clinic, and with the School of Public and Environmental Affairs, which hosts many joint degree students also at the law school. Finally, the Director will assist the law school's development staff to obtain continuing funding for the program and position. A J.D., Master's degree, or a Ph.D. in law, public policy, or a related field and three years experience in an environmental law-related area are required. Applications are due February 12, 2009.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175356852>

5. Faculty, Agriculture, Food, & the Environment, Tufts U

The Tuft University (MA) Friedman School of Nutrition Science and Policy seeks a faculty member to join the Agriculture, Food and Environment (AFE) Program. The AFE Program fuses the disciplines of nutrition, agricultural science, environmental studies and public policy, and interacts closely with other science and policy teaching and research programs at the school. The full time, tenure-track, 12-month position will begin in the summer of 2009. Responsibilities will include teaching 2-3 graduate level courses annually, advising graduate students, and securing funding. A doctoral degree in a relevant agricultural, food policy or nutrition-related field is required. The search committee will begin reviewing applications at the end of February 2009.

<http://chronicle.com/jobs/id.php?id=0000589921-01&pg=s&cc=>

6. Tenure-track position in Applied Sustainability - Civil Engineering

The Department of Civil Engineering, Faculty of Applied Science, Queen's University invites applications for the Walter Light Scholar faculty position. This is a tenure-track faculty position at the rank of Assistant Professor, commencing July 1, 2009, subject to budgetary approval. The position will be focused on applied sustainability in one or more of the following disciplines: Environmental Engineering (with a focus on water and sustainable water resources), Structural or Materials Engineering, Geotechnical Engineering, or Hydrotechnical Engineering. The successful candidate must hold a Ph.D. (or be near completion) in Civil Engineering or a related field. Registration as a Professional Engineer, or eligibility to acquire registration in Canada, is an essential qualification. Outstanding candidates with an engineering research background and/or relevant industrial experience, in particular, are encouraged to apply. The Department actively involves industry partners in both research and teaching (see www.civil.queensu.ca for further details). The Department also houses two research centres: the Centre for Water and the Environment (www.cwe.queensu.ca) and the GeoEngineering Centre at Queen's-RMC (www.geoeng.ca)

INTERNSHIPS, FELLOWSHIPS, SCHOLARSHIPS & OTHER STUDENT OPPORTUNITIES

1. New Michigan Tech Dean's Fellowship

Students are nominated by graduate programs. The deadline for receipt of applications is March 1st each year

Beginning in January 2009, the Graduate School will offer up to ten Dean's Fellowships to assist with the recruitment of highly talented applicants to Michigan Tech's PhD programs. Dean's Fellowships will provide partial support for the recipient's first year in a PhD program. The support will include a stipend of \$2,000 per academic-year semester (fall and spring) as well as full summer support (stipend plus minimum full-time tuition and fees).

The primary goal of the Dean's Fellowship program is to support Michigan Tech's strategic plan goal of being an inclusive and welcoming campus for faculty, students, and staff who bring rich, diverse perspectives to our teaching, learning, and research. The Dean's Fellowship is intended to contribute to the development of a diverse academic community, which includes future faculty and others who will be leaders throughout their professional careers.

Full details about the eligibility, nomination process, and review process can be found in the guidelines. Note that students are nominated by graduate programs. The deadline for receipt of applications is March 1st each year. The dean of the Graduate School will announce the recipients by March 22nd each year.

Please use the following link to view the dean's fellowship:

<http://www.gradschool.mtu.edu/financial/deans-fellowship.html>

NEW RESOURCES

1. Practical Guide to Reducing the Campus Carbon Footprint

APPA has released a new report titled, "The Educational Profession's Practical Guide to Reducing the Campus Carbon Footprint." The resource for facilities managers provides pragmatic assistance to effectively implement a carbon reduction plan. The guide is broken down into five chapters that expand on the following actions: forming a stakeholder group; completing a greenhouse gas emissions inventory; developing a strategic climate action plan, identifying resource investments, and implementing a tactical plan.

<http://appa.org/files/PDFs/FINAL09APPASustainabilityGuide.pdf>

2. Publication: The Role of IT in Campus Sustainability Efforts

EDUCAUSE has posted a new publication entitled, "The Role of IT in Campus Sustainability Efforts." The whitepaper captures key findings from the two day Summit on IT Greening and Sustainability and outlines a higher education agenda for moving forward.

<http://connect.educause.edu/Library/Abstract/TheRoleofITinCampusSustai/48000?time=1233342315>

EVENTS & CONFERENCES

1. Alliance to Save Energy's 6th annual Great Energy Efficiency Day (GEED)- Keys to Unlocking a "New Era" of Energy Efficiency

March 4th in Washington, D.C.

Join us for an in-depth discussion on the keys to unlocking energy efficiency and the roll EE must play in realizing a clean energy future for the US. Join more than 400 stakeholders from business, industry, government, academia, featuring an impressive roster of speakers addressing the following topics:

Incentives to Drive EE in the Utility Sector - Will One Approach Win the Day?

Climate & Energy Legislation in the 111th Congress - A Preview of the Roadmap for Energy Efficiency

Is Pricing Carbon Enough or Are Complementary Policies Needed?

The Business Response - Are We Ready to "Ramp Up" EE to its Full Potential?

Are We Ready to Measure Success? - Facing the Challenge of EM&V

As with past years, there is no admission fee for attending the 2009 Great Energy Efficiency Day; however, you must register online. For more information visit www.ase.org/geed

2. Forest-based Bioenergy for Michigan's Upper Peninsula

March 10, 2009 9:30 AM - 4:00 PM Peter White Public Library Marquette, Michigan

Early Registration (before Feb. 28th) - \$20 Late Registration (March 1 or later) - \$25

SAF and CFE credits available

Interest in wood-based bioenergy is greatly increasing as people look for renewable and alternative forms of energy. This is especially true in Michigan's Upper Peninsula where nearly 80% of land is in forest. This workshop will explore the future of woody biomass utilization in the region and what that might mean for local forests, economies, and communities. Of interest to foresters, natural resource professionals, logging contractors, county officials, city officials, conservation interests, agency representatives, and wood products businesses. For more information, contact Maria Janowiak at janowiak@mtu.edu or (906)482-6303 x29.

See www.forest.mtu.edu/bioenergyworkshop.pdf for a list of topics and presenters.

3. AASHE Member Discounts for RETECH Higher Ed Pavilion

The American Council on Renewable Energy (ACORE) is offering a 50 percent discount on Higher Education Pavilion exhibiting and conference packages to AASHE members for the upcoming conference, RETECH - Renewable Energy Conference and Technology Exposition, which will take place February 25 - 27, 2009. The focus of this year's RETECH program is education about renewable energy and planning of the new, green economy. 3,000-5,000 attendees are expected. AASHE members will also receive a \$250 discount on registration, which closes January 30, 2009. <http://www.aashe.org/membership/discounts.php/#events>

4. International Conference on Food Security and Environmental Sustainability FSES 2009

December 17-19, 2009

Agricultural and Food Engineering Department at IIT Kharagpur, India is organizing an international conference on "Food Security and Environmental Sustainability - FSES 2009"

<http://www.agri.iitkgp.ernet.in/fses2009/index.html>

5. Education for the 21st Century

March 19, 2009

The Connecticut Partnership for Sustainability Education and the Connecticut Outdoor and Environmental Educators Association are co-organizing a one-day conference on Sustainability Education for the 21st Century to be held March 19, 2009 at Central Connecticut State University (near Hartford, CT). Debra Rowe will be the keynote speaker. Links to the program brochure and registration information are available at:

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