SFI weekly newsletter for the week of January 25
A weekly service of SFI

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Please send announcements of your publications, presentations, awards, events, and names of awarded proposals to melissadn@mtu.edu.

SFI NEWS

1. **SFI Partners in Three Major Biofuel Projects** *from* great lakes IT report the daily tech news source for Michigan & beyond

Biofuels hold promise for cutting civilization's carbon footprint while reducing dependence on petroleum. But how plant-based biofuels really work, including the extent to which they sop up atmospheric carbon dioxide during their growth cycle, is still poorly understood. Michigan Technological University has several projects under way to get to the facts. Tech officials say that the true impact on greenhouse gas emissions of any biofuel -- wood chips, switchgrass, algae or others -- can only be determined if the entire production process is examined, from planting, harvesting, transporting and processing the feedstock to measuring exhaust from the tailpipe. **David Shonnard**, the Robbins Chair Professor in the Department of Chemical Engineering at Michigan Tech, will be conducting just such cradle-to-grave, life cycle analyses for two major alternative-energy projects recently funded by the United States Department of Energy.

They are among 19 industry-led projects receiving grants totaling $564 million from the American Recovery and Reinvestment Act, commonly known as federal stimulus funds. Shonnard will also be involved in a third DOE-funded project, working to turn wastewater pollutants into ethanol.The aim of the projects, according to the DOE, is to validate refining technologies and help lay the foundation for a full-scale biomass industry in the U.S.

Shonnard directs Michigan Tech's **Sustainable Futures Institute**, which will be involved in life cycle studies conducted on behalf of two projects led by the Gas Technology Institute and UOP, a Honeywell company.

"Our research will provide a better picture of greenhouse-gas savings for advanced biofuels," said Shonnard. "As they develop their processes, data will flow back to our group, and we'll provide feedback on whether their greenhouse gas emissions are getting better or worse. This allows the companies to improve the carbon footprint of advanced biofuels."

UOP received $25 million in DOE funding to produce green gasoline, diesel and jet fuel from agricultural residue, woody biomass, energy crops and algae. The project will be based in Kapolei, Hawaii, and includes a three-year contract for a life cycle analysis to be conducted by the Sustainable Futures Institute at Michigan Tech.

The Gas Technology Institute aims to engineer a process to produce green gasoline and diesel directly from woody biomass including lignin, agricultural residues such as the leaves and stalks of corn; and algae. The institute has received a one-year, $2.5 million award from the DOE for

the $3.1 million project, based in Des Plaines, Ill. Shonnard's research group will receive $50,000 to determine greenhouse gas emissions savings.
In addition, Shonnard will be working with American Process Inc. The company has received a DOE grant of $17.9 million toward a $28 million project to produce ethanol and potassium acetate, an industrial chemical. For a feedstock, the process uses effluent containing wood sugars generated by Decorative Panels International's hardboard manufacturing plant in Alpena. Rather than pay to have the effluent processed as wastewater, the pilot plant will use it to produce up to 890,000 gallons of ethanol and 690,000 gallons of potassium acetate per year starting in 2011. Shonnard will receive $65,000 to further research on using enzymes to make fermentable sugars out of unfermentable carbohydrates.
Not everyone has embraced biofuels. Some worry that they will displace food crops. Others have asked what will become of America's forests if wood becomes a major feedstock. And how much will biofuels affect greenhouse gas emissions, when all is said and done?
"Our research is trying to answer these questions," Shonnard said. "What is the carbon footprint of the supply chain? How much land will be required? What will be the impact on the land? Our projects won't provide all the answers, but in the long term the Sustainable Futures Institute will help decision-makers in industry and government make more-informed choices."

SUSTAINABILITY NEWS

1. **Court to rule on Great Lakes fish lockout**
   The Supreme Court is likely to issue a ruling this week on a lawsuit to keep invasive fish out of the Great Lakes. Several states, led by Michigan, want Illinois to close canal locks to block the voracious Asian carp. But Illinois, backed by the federal government, argues that closing the locks would also block commerce. (read more)

SEMINARS

RESTORE GREAT LAKES GREAT LAKES RESTORATION INITIATIVE
Accountability - Action - Urgency

1. **Great Lakes Restoration Initiative request for proposals public webinar archive is available for viewing.**
   http://greatlakesrestoration.us/action/?p=178
   This public webinar occurred December 16, 2009 with 584 participants.
   View the captioned video or download video here:
   http://epa.gov/glnpo/live/rfp01webinar/index.html
   Find out more about the Great Lakes Restoration Initiative request for proposals here: http://epa.gov/glnpo/fund/2010rfp01/index.html

2. **AASHE Launches STARS 1.0 -- Webinar**
   The full, formal launch of STARS 1.0 (Sustainability Tracking, Assessment & Rating System) will take place on Tuesday, January 19th. Already over 100 institutions have registered as STARS Charter Participants.

   In honor of the launch, AASHE is presenting an educational webinar titled "Measuring Campus Sustainability: Reaching for the STARS," which addresses how STARS will meet the needs of the campus sustainability community. This free webinar, broadcast from American University, starts at noon Eastern on Jan. 19th. Please RSVP for the webinar to receive login details.

   The webinar features the following leaders in higher education (and includes a Q & A session):
   - Nan Jenks-Jay - Dean of Environmental Affairs, Middlebury College
   - Dave Newport - Director of the Environmental Center, University of Colorado at Boulder
   - Chris O'Brien - Director of Sustainability, American University

- Paul Rowland - Executive Director, AASHE
For questions about the launch, contact the STARS Team (stars@aashe.org)

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, David Shonnard, will sign the transmittal sheet on page 3. (If David Shonnard is unavailable for signing transmittal sheets, Rick Donovan 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. Please feel free to contact SFI in regards to proposal development – SFI can serve as a hub for bringing together different faculty, merging concepts related to sustainability, providing literature review assistance, etc.

1. ***Energy for Sustainability***
   Sponsor: NSF
   Amount: $100,000
   Deadline: February 1 to March 3, 2010.
   Link to Program Guidelines
   This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Most world energy needs are currently met through the combustion of fossil fuels. With projected increases in global energy needs, more sustainable methods for energy production will need to be developed, and production of greenhouse gases will need to be reduced. Sources of sustainable energy include sunlight, wind/wave, biomass, and geothermal.
   Hydrocarbons, alcohols, and hydrogen are potential energy carriers that can be derived from renewable sources. Research that generates enabling science and technologies for more efficient hydrogen generation and storage is supported by the program. Potential sources of hydrogen include conversion from biomass and from electrolysis, photolysis or thermolysis of water. Biomass is available from agricultural crop residues, forest products, aquatic plants, and municipal wastes. In addition to hydrogen, biomass can be a source of liquid and gaseous hydrocarbons and alcohols.
   In the long term, fuel cells have the potential to convert fuels such as hydrogen and alcohols to electricity at high efficiencies and should play an increasing role in energy conversion. Critical components of fuel cells requiring additional research include catalysts and electrolytes. Development of these components also requires fundamental research on the reaction and transport mechanisms at the catalyst and membrane electrolyte interface. Advances in these areas are needed to address key challenges in efficiency, durability, power density, and environmental impacts. The engineering aspects of fuel-cell design and operation also require further study in areas such as water and thermal management.
   Wind power is a growing source of electrical energy. Increased efficiency requires a fundamental knowledge of the interaction of wind with the blade structure. Understanding the fluid flow, and optimizing blade design are important aspects in developing more efficient wind generators. Photovoltaic devices have the potential to supply a significant fraction of electrical energy to the power grid. Although silicon-based materials have been most widely used, other semiconducting, quantum and organic materials also have potential. New materials and novel fabrication techniques for solar energy conversion are supported by the program.

2. ***Great Lakes Restoration Initiative Request for Proposals***
   Note: SFI will be coordinating several responses to this RFP. Please feel free to contact Richard Donovan, SFI's operations manager regarding how you can participate.
   http://epa.gov/greatlakes/fund/2010rfp01/index.html
   HUFY2010 Great Lakes Restoration Initiative Interagency Funding Guide U
   U.S. EPA, August 24, 2009
   Bob Shuchman's write-up of the summer EPA presentations on the GLRI is here:
   http://www.mtri.org/GreatLakesRestorationInitiative.html

3. ***NSF Environmental Implications of Emerging Technologies***

Deadline Mar 03, 2010
Upper Amount $100,000 for one to three years. Equipment proposals for less will be considered
This program provides support to develop and test the environmental effects of new technologies. Fundamental and basic research is sought to establish and understand outcomes as a result of the implementation of new technologies such as nanotechnology and biotechnology. The program also supports research on the development and refinement of sensors and sensor network technologies that can be used to measure a wide variety of physical, chemical, and biological properties of interest in characterizing, monitoring, and understanding environmental impacts. The program emphasizes engineering principles underlying technology impacts. Innovative production processes, waste reduction, recycling, and industrial ecology technologies are of interest. All of these have implications that would be relevant to this program.
Current areas of support include
- understanding and mitigating how new developments in nanotechnology and biotechnology will interact with the environment;
- nanotechnology environmental, health, and safety implications and applications;
- predictive methodology for the interaction of nanoparticles with the environment and with the human body, including predictive approaches for toxicity;
- fate and transport of natural, engineered, and incidental (by-product) nanoparticles;
- risk assessment and management of the effect of nanomaterials in the environment;
- evaluation of the effect of increased usage of renewable resources on water supply and land use; and
- sensor and sensor network technologies as they relate to the measurement of these environmental implications.

All proposed research should be driven by engineering principles, and presented in an environmental health and safety or environmental sensor context. Proposals should include involvement of at least one engineering student. URL for more info http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030

4. ***Broadening Participation Research Initiation Grants in Engineering (BRIGE) - NSF 10-509***

Sponsor: NSF
Amount: $175,000
Deadline: Feb 25, 2010
The Directorate for Engineering (ENG) at the NSF offers a research initiation grant funding opportunity with the goal of broadening participation to all engineers including members from underrepresented groups and persons with disabilities in the engineering disciplines. These grants are intended to increase the diversity of researchers in engineering disciplines to initiate research programs early in their careers, including those from underrepresented groups, engineers at minority serving institutions, and persons with disabilities. By providing these funding opportunities, ENG intends to further broaden participation of engineering researchers who share NSF's commitment to diversity in the following ways:
1. Expand the population of role models who will interact with an increasingly diverse student population, the workforce of the future.
2. Increase the number of engineering researchers at minority serving institutions actively and competitively engaged in research as independent investigators, thereby creating new research opportunities for students from underrepresented groups and persons with disabilities.
3. Fund engineering research projects that use innovative ways to attract and retain members of underrepresented groups and persons with disabilities to careers in engineering.

The participating ENG organizations are
- Electrical, Communications and Cyber Systems;
- Division of Chemical, Bioengineering, Environmental, and Transport Systems;
- Civil, Mechanical and Manufacturing Innovation;
- Engineering Education and Centers; and
- Industrial Innovation and Partnerships.

http://fundingopps.cos.com/cgi-bin/getRec?id=110373&_ksTicket=1adbf95f580b280eeaacefbdbabc0f3c&_ksExpires=2010010100:00:00

5. **Fundamental Research Program for Industry/University Cooperative Research Centers (FRP) - NSF 10-507**
Amount $50,000 to $200,000 for ~10 awards No cost sharing required.
Deadline Feb 17, 2010 to Feb 02, 2011
Industry participation extends the scope and horizon of center research projects so as to drive innovation with industrially relevant fundamental research projects. Industry-defined fundamental research projects must demonstrate measurable industry collaboration and involvement that accelerates fundamental research.
The I/UCRCs contribute to the knowledge base of a large number of industrial manufacturing processes that involve a wide range of technological pursuits and are found in areas such as aerospace, electronics, chemicals, recovery of natural resources, the environment, petroleum, biochemicals, materials, food, power generation, and allied activities. To better enable these processes, the I/UCRC fundamental research program supports research that involves the development of fundamental engineering and science principles, process control and optimization strategies, mathematical models, and experimental techniques, with an emphasis on projects that have the potential for innovation and broad application in areas in industry. This fundamental research is leading to applications that include sensors, materials, pharmaceuticals, imaging, visualization, embedded systems, next generation computers, medical devices and instrumentation, alternative energy, ecological engineering, water and waste treatment, and robotics. Should the fundamental research proposals be awarded, there may be opportunities for additional funding for opportunities such as those listed below:
1. GOALI (NSF-09-516) - Graduate and Undergraduate Student Industrial Fellowship
2. Research Experienced for Undergraduates (NSF 09-598) - REU
Bookmark Url http://fundingopps.cos.com/cgi-bin/fo2/getRec?id=115693
URL for more info http://www.nsf.gov/pubs/2010/nsf10507/nsf10507.htm

6. ***ERDC BAA - Construction Materials Made From Recycled Wastes (CERL-11)***
Sponsor: DOD
Amount not listed
Deadline Continuous
The Construction Engineering Research Laboratory announces research opportunities involving construction materials made from recycled wastes. 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.
Bookmark Url http://fundingopps.cos.com/cgi-bin/fo2/getRec?id=41644

7. **ONR's Young Investigator Program (YIP)**
Deadline: Jan 29, 2010
The Office of Naval Research (ONR) is interested in receiving proposals for its Young Investigator Program (YIP). ONR's Young Investigator Program (YIP) seeks to identify and support academic scientists and engineers who have received Ph.D. or equivalent degrees within the last five years (on or after 01 November 2004 for this FY10 competition) and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of Institutions of Higher Education (hereafter also called "universities") to the Department of the Navy's research program, to support their research, and to encourage their teaching and research careers. Proposals addressing research areas as described in the ONR Science and Technology (S&T) Department section of ONR's website at www.onr.navy.mil which are of interest to ONR Program Officers and Division Directors will be considered. Contact information for each Division (a subgroup of an S&T Department) is also listed within the S&T section of the website. Potential applicants may contact the appropriate Division Director, or the Program Officer who is the point-of-contact for a specific technical area, to discuss their research ideas. Brief informal pre-proposals may be submitted to facilitate these discussions. Such discussions can clarify the content and breadth of the priority research areas and enhance the match between a subsequent proposal and Department of the Navy research needs.

http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=50529

8. **Research Excellence Fund Calls for Proposals**
   Deadline: 4 p.m. Thursday, Feb. 25.
   Proposals are being solicited for the FY2010 Research Excellence Fund (REF), an internal award of the Office of the Vice President for Research.
   The announcement, which includes a program description, proposal format, review criteria and process, award procedure and reporting requirements, is available online. A new REF category, Scholarship and Creativity Grants, has been added this year. More information. Incomplete proposals or those received after the deadline will not be accepted for consideration by the review committee for this year and will be returned. Newly funded REF awards will begin on Thursday, July 1.
   Submit your proposal to Laurie Stark, office assistant in Research Integrity and Compliance, located on the third floor of the Lakeshore Center.

JOBS, POST DOCS, INTERNSHIPS, FELLOWSHIPS, SCHOLARSHIPS

1. **Dir, Alternative Energy & Power Technology Prgm, Palm Beach CC**
   Palm Beach Community College (FL) invites applications for the director of the alternative energy and power technology program. The position is responsible for the oversight and administration of the Alternative Energy and Power Technology programs. Duties will include, but are not limited to, developing and coordinating alternative and sustainable energy programs and courses, working with subject matter experts for the development of curriculum, scheduling courses, dealing with lab safety issues, taking inventory, planning equipment and facilities, managing textbooks and materials, and advising students. Additional responsibilities will include managing the departmental budget, identifying and supervising staff and instructors, and adhering to and monitoring program accreditation requirements. A master's degree in electrical engineering, a master's degree in engineering and 18 graduate semester hours in electrical engineering, or a master's degree in environmental sustainability with experience in higher education program development is required. The position is open until filled.
2. **Energy Manager, Meredith College**
   Meredith College (NC) is seeking applicants for the energy manager position. The manager will monitor the energy use of the campus and assess and analyze the energy performance of each building through energy audits, reviewing the efficiency of electrical and mechanical systems, and developing energy management action plans in cooperation with the Facility Services Department, Sustainability Office, and the campus community. The manager will also seek to achieve energy savings, promote indoor air and environmental quality, and minimize the overall environmental impact of campus buildings and infrastructure. A bachelor's degree in a related technical, scientific or engineering discipline or equivalent is required, as is a minimum of three years experience in energy management, facility mechanical systems design, construction and/or maintenance.
3. **Environmental Program Coordinator, U South Carolina**
   The University of South Carolina is seeking applicants for the position of environmental program coordinator. The position is responsible for advancing and providing overall leadership for Sustainable Living for University Housing. Principal duties include environmental programs and analysis, conducting environmental conservation researches, grant development, promotion of conservation efforts, development of educational materials, and advisement for resident student organizations. The position will develop and implement educational and communication opportunities for audiences both on and off campus, to include student, faculty, staff, and community organizations. The position will also raise awareness of sustainability initiatives and accomplishments, and foster a culture of collaboration and sustainability. A bachelor's degree or a high school diploma with four years of program experience is required. The position is open until filled.
4. **Research Chair, Oil Sands Env Sustainability, Northern Alberta IT**
   The Northern Alberta Institute of Technology is seeking applicants for an applied research chair in oil sands environmental sustainability. The position will provide scientific investigation and leadership in

seeking solutions in oil sands operations, production, resource management, and conservation through the utilization of green chemistry and sustainable process technologies. The successful candidate will bring a strong record of achievement in applied research in the field and will have attained recognition for making a major impact in this field. Experience creating and directing research teams and excellent interpersonal and communication skills are needed to develop the role to its full potential. A doctoral degree in a relevant field or the equivalent in education and experience is required.

5. **Summer Research Fellowships, Sustainable Endowments Institute**
   The Sustainable Endowments Institute is seeking highly motivated and reliable individuals for full-time summer research fellowships. Research Fellows will collaborate on surveying and analyzing sustainability initiatives at hundreds of colleges and universities in the United States and Canada to help produce the College Sustainability Report Card 2011. The fellowship positions will last approximately 12 weeks, starting in June 2010. Applications will be considered on a rolling basis.

6. **CA-CP Announces Climate Fellowship Opportunities for Summer 2010**
   The highly competitive Clean Air-Cool Planet Climate Fellowship program pairs outstanding students with challenging real-world opportunities to propel society toward a low-carbon future. Highly qualified graduate and undergraduate students in fields ranging from the humanities to environmental policy or economics to statistics, engineering, physical or biological sciences complete important, challenging, and in-depth projects.
   Applications will be accepted from December 18th until midnight on January 31st, 2010. Placements run for ten weeks, between May and August, 2010, and include a $5000 stipend.
   Opportunities for 2010 are as follows:
   Communicating Carbon Management Strategies Across Sectors
   Vanasse Hangen Brustlin, Inc. (Boston, MA)
   Vanasse Hangen Brustlin, Inc. is an emerging leader in the campus sustainability movement—a movement that has much to lend to organizations in other sectors that are not as far along the carbon management path. A Climate Fellow will work with the VHB higher education team to evaluate what kinds of projects and solutions are most immediately applicable with their work in other sectors, including healthcare, airports, municipal governments and others. From there, the fellow will work with Clean Air-Cool Planet and VHB to implement internal strategies at both organizations and produce a white paper for the sharing of best practices across sectors.
   Read the full description (pdf).
   Seacoast Science Center's Carbon Challenge
   The Seacoast Science Center (Rye, NH)
   A climate fellow will evaluate and assist in the successful cultivation of Northeast Science Center Collaborative (NESCC) members as implementing partners in the New England Carbon Challenge (NECC) program from the Seacoast Science Center. This fellow will evaluate the progress of science centers implementing the Carbon Challenge. The result of this query will be a short, written report identifying the places where our partners have succeeded and the places where our partners have fallen short, and why. The cumulative result of this work will be a "Guide for Science Centers as an Implementing Partner in a Residential Carbon Challenge.
   Read the full description (pdf).
   Strategic Communications and Development
   Clean Air-Cool Planet (Portsmouth, NH)
   This fellowship will allow for exploration and development of effective communication mechanisms, aimed at supporting the work outcomes of all of the 2010 fellows, as well as supporting the fellowship program's overall branding, development, and alumni retention efforts. Two key areas of focus will be effective representation of data and information in graphically appealing ways, and the leverage of existing networks and systems (such as social networking tools) to disseminate these accessible data visualizations. The fellow may work with local graphic and web design studios in Portsmouth, NH, to explore these needs and to develop effective tools. Read the full description (pdf).
   Climate Policy: Natural Resources
   The Climate Policy Center (Washington, DC)
   This fellow will be involved in Clean Air - Cool Planet's work in the nation's capital, meeting key players in climate policy development and producing products of immediate value. He or she will compile background information, assess the latest research and explore policy implications on scientific topic(s) of importance

to climate change, in particular issues of climate adaptation on natural resources and natural resource policy. At the end of the summer term, this Climate Policy Fellow will have written one or more papers and/or presentations on the state of scientific/technical knowledge on climate change adaptation and implications for policy development. Read the full description (pdf).

Climate Policy: The Economics of Adaptation, Readiness, and Risk

The Climate Policy Center (Washington, DC)

This is the second fellowship assisting Clean Air-Cool Planet in its work in Washington. The fellow will compile background information, assess the latest research and explore policy implications of the economic impact of climate adaptation, readiness, and risk. At the end of the summer term, this fellow will have written one or more papers and/or presentations on the state of scientific/technical knowledge on Adaptation and implications for policy development.

Read the full description (pdf).

Charting Emissions from Food Services (CHEFS)

Tulsa, Oklahoma, Chamber of Commerce (Tulsa, OK)

Clean Air - Cool Planet is creating an innovative tool: CHEFS—Charting Emissions from Food Services. Not only will CHEFS allow our partners to estimate their broader footprint, but we are also 1) creating momentum within corporate foodservice providers to green their own operations, and 2) contributing to the body of life cycle data for food production in North America. This fellow will be responsible for coordinating the communications with pilot sites, recruiting new pilot partners, and synthesizing the outcomes into best practices and outstanding questions. This fellowship will be based in Tulsa, Oklahoma. The fellow will work in the office of the Tulsa Chamber of Commerce. Approximately one day per week will be spent supporting the Chamber's "Tulsa Young Professionals" group with several environmental projects. Read the full description (pdf).

Greening the Greater Portsmouth Chamber of Commerce

Greater Portsmouth Chamber of Commerce (Portsmouth, NH)

Clean Air-Cool Planet is an active member of the Greater Portsmouth Chamber of Commerce, with a staff member who serves on its Legislative Affairs Committee. The purposes of this fellowship will be production of a guide to engage small businesses on climate change and sustainability bringing together components of the action plan launched by the City of Portsmouth. The fellow will work to identify key obstacles to success by surveying membership and developing a template for measuring outcomes. He or she will also help develop programs to engage and encourage GPCC members, partners and the greater community in general to demonstrate innovative technologies or programs on the path toward achieving its goal of reducing the carbon footprint. Read the full description (pdf).

New Hampshire Climate Action Campaign

The Carbon Coalition (Concord or Portsmouth, NH)

Working closely with other state environmentalists and under the direction of CA-CP, this Fellow will influence the response to and point of view of Republican candidates and activists throughout New Hampshire on the issue of climate change in advance of the state primary on September 14th. This work is especially important as prospective candidates for the Republican nomination for President will be in the state during this period of time, setting the groundwork for retail-level campaigning in advance of the 2012 presidential primary. The fellow will have the opportunity to extend his or her placement for a second six-week term through the primary.Read the full description (pdf).

Maine Energy Efficiency and Climate Change Handbook

Greater Portland Council of Governments (GPCOG) Portland, Maine

A Maine-based CA-CP Fellow will work throughout the summer in the Portland-based GPCOG office area to ensure regional and municipal project implementation. This will result in a *Maine Energy Efficiency and Climate Change Handbook* that is modeled upon existing NH and CT handbooks developed by CA-CP over the past two years. In addition, the Fellow will support the Maine Local Energy Committee Working Group that has been formed to advance the goals of the project and that will meet monthly. Maine resident preferred; some travel throughout the GPCOG region likely will be required. Read the full description (pdf).

Carbon Reductions for Historic Buildings

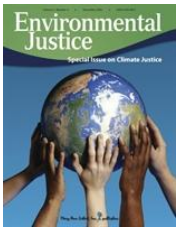
Portsmouth, NH

Historic buildings represent a significant portion of the building stock in New England and indeed of the US as a whole. As a result, improving the energy performance of these structures is an important piece of the global warming solutions puzzle. Clean Air-Cool Planet is working on ways to begin addressing this problem. Our newly released *Energy Efficiency, Renewable Energy, and Historic Preservation: A Guide for Historic District Commissions*"—a product of two 2009 CA-CP Climate Fellowships—has facilitated the beginnings of a dialogue between the preservationist and green building communities; the 2010 Historic Building Fellow will have the opportunity to carry this work forward in new and important ways. Read the full description (pdf).

7. **Michigan Sea Grant is recruiting applicants for three fellowship programs**. Graduate students with a wide range of backgrounds (science, policy, law etc.) and a strong interest in Great Lakes, coastal or marine issues are encouraged to apply. Please forward this email to potential

candidates. The fellowships offer terrific career-building and networking opportunities, real world training, salary & benefits, and a chance to explore careers at the science/policy interface. Visit the program websites or contact Lynn Vaccaro (Lvaccaro@umich.edu) for more information. www.miseagrant.umich.edu/research/fellowships

8. **Kathryn Fuller Fellowships**
   Advancing Conservation through Science
   World Wildlife Fund – US (WWF-US) is pleased to announce the availability of Kathryn Fuller Fellowships for 2010. For nearly 50 years WWF has committed to delivering science-based conservation results while incorporating the latest research and innovations into our work. As part of its commitment to advancing conservation through science, WWF established Kathryn Fuller Fellowships to support PhD students and postdoctoral researchers working on issues of exceptional importance and relevance to conservation in WWF-US priority places. This year, the Kathryn Fuller Science for Nature Fund will support doctoral and postdoctoral research in the following three areas: (1) ecosystem services; (2) measuring and monitoring carbon stocks in forests; (3) climate change impacts on and adaptation of freshwater resources.
   http://www.worldwildlife.org/science/fellowships/fuller/item1296.html
9. **STARS Technical Development Coordinator, AASHE**
   AASHE seeks a Technical Development Coordinator to contribute to the ongoing development and refinement of the Sustainability Tracking, Assessment & Rating System (STARS). The STARS Technical Development Coordinator's primary responsibility will be to coordinate a team of Technical Advisors across many disciplines to improve the STARS credits and corresponding support materials. Review of applications will begin on January 25, 2010, and will continue until the position is filled.
   http://www.aashe.org/highlights/jobs/stars-technical-coordinator



EVENTS, CONFERENCES, & CFPs

1. ***ENVIRNOMENAL JUSTICE* Earth Day Commemoration Issue Submissions**
   from Dr. Sylvia Hood Washington, Editor in Chief, ***Environmental Justice***
   As many of you know, April 22, 2010 is the 40th anniversary of the first Earth Day celebration in the United States. I am planning a special issue of the ***Environmental Justice*** journal to commemorate this historic moment. Included in the issue will be a compendium of personal and professional reflections from our diverse community that will focus on how you remember your first Earth Day experience; how you feel that environmental justice was implicitly, explicitly, or simply missing from the first celebration, or from subsequent celebrations; your opinions as to whether environmental justice became, or did not become, part of the mainstream environmental movement over the years; and how environmental justice is or should be part of the climate change, green, and or sustainable movements today.
   When I was a doctoral student in environmental history in the latter half of the 1990s, there was a pervasive, if not universal belief, that minority communities were not interested in the environmental movement and did not participate in the first Earth Day. My dissertation and subsequent books and publications over the last decade help to dispel this myth among environmental historians. This issue for Earth Day hopefully will provide a forum for individuals from every spectrum of the EJ field to tell their history of Earth Day and the environmental justice movement over the last 40 years to a much larger audience and shed more light on an important topic that we all care about.
   We anticipate a wide array of views and reflections on this provocative topic and look forward to your active participation. We invite you to submit your contribution to be considered for inclusion in this issue, which may be from 250 – 1,000 words, **no later than February 20** to jchapman@liebertpub.com. Please be sure to include your complete contact information.

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 SFI at sfi-admin@mtu.edu.