

**SFI weekly newsletter for the week of June 8, 2009**  
**A weekly service of SFI**



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4. Recycling Update: Community Electronics Waste Disposal Saturday **TOMORROW!**
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**JOBS & POST DOCS, INTERNSHIPS, FELLOWSHIPS, and SCHOLARSHIPS**

1. A new online journal, *Ecopsychology*, is seeking articles for an upcoming special issue
2. Articles on other key topics in the field including:
3. Director, MBA in Sustainable Enterprise, Dominican U of California
4. [Senior Faculty, Energy, Resources, & Environment, Johns Hopkins U](#)
5. [Instructor, Environmental Studies, Bowling Green State U](#)

**EVENTS & CONFERENCES**

1. 2009 Joint Conference – Call for Presentations Lake Michigan: State of the Lake and Great Lakes Beach Assoc.
2. CFP 7th Nat'l Monitoring Conf - Monitoring From the Summit to the Sea Nat'l Water Quality Monitoring Council

Please send announcements of your achievements, publications, presentations, and awards to Denise Heikinen at [dmheikin@mtu.edu](mailto:dmheikin@mtu.edu).

## SFI NEWS AND ANNOUNCEMENTS

### 1. Meet SFI's Newest Staff Member

As many of you are already aware, Qiong (Jane) Zhang has accepted a faculty position at the University of South Florida and will be leaving us soon. Her contribution to SFI has been invaluable. She has been with SFI since its inception and will be greatly missed. We look forward to hearing regular reports from her in the future.

Richard Donovan joined SFI this week as our new Operations Manager, Senior Engineer and Scientist. Rick comes from Montana



Rick, Bill, and Sparky

Tech of the University of Montana where he was an Assistant Professor of Mechanical Engineering. Dr. Donovan holds a PhD in Mechanical Engineering from the University of Wyoming, with a Masters Degree in Civil Engineering and Engineering Mechanics from Montana State University. He received his Bachelors Degree in Civil Engineering from the University of Texas at Austin. Rick's research interests include high performance computing, artificial intelligence computing, computational materials science, and systems modeling for sustainability. He is excited about finding new resources to increase SFI visibility and influence, in the local community as well as nationally and internationally. He encourages everyone to stop by Dow 840a or call 7-1092 to say "Hi" and to talk about possible project ideas that SFI might help with. Rick's outside interests include wind surfing, biking, running, swimming, and all manner of boating, activities that will fit in nicely in the Copper Country area.

### 2. Center for Water and Society Director Alex Mayer consulted for water use article in *The Christian Science Monitor*

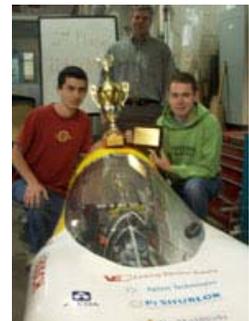


Our "water footprint" is the topic of an article about increasing water use in the June 10<sup>th</sup> issue of *The Christian Science Monitor* that features insight from Alex Mayer, CWS Director.

See <http://features.csmonitor.com/environment/2009/06/10/a-wake-up-call-on-water-use/>

### 3. Congratulations to Michigan Tech's The Supermileage Systems Enterprise team

Michigan Tech won second place in the mileage category of the SAE Mega Mileage Event with a vehicle that got 1,140 mpg and finished first in the design competition. The Universite Laval of Quebec won for the second straight year by attaining 1,804 miles per gallon. Third place went to California State University at Los Angeles. Established nearly 30 years ago as a way to generate public awareness in the area of fuel economy, the Supermileage competition offers a simple yet challenging goal: to build a one-person, fuel-efficient vehicle based around a small, four-cycle engine. (Engines are donated by Briggs & Stratton) Competitors don't race against the clock or to a checkered flag; the highest miles per gallon wins the event. Supermileage is part of SAE International's Collegiate Design Series. Other competitions in the series include Baja SAE, Clean Snowmobile Challenge, Formula SAE and Aero Design. SAE International's Collegiate Design Series and A World In Motion curriculum won the National Science Foundation's prestigious 2008 Public Service Award. More at <http://www.wjw.com/pages/4557408.php> and [http://www.admin.mtu.edu/urel/news/media\\_relations/907/](http://www.admin.mtu.edu/urel/news/media_relations/907/)



### 4. Recycling Update: Community Electronics Waste Disposal Saturday **TOMORROW!**

The GEM Center for Science and Environmental Outreach and the Environmental Sustainability Committee are once again getting behind a community electronics waste disposal program. The Retired and Senior Volunteer Program (RSVP) will collect unwanted **household** electronics on **Saturday, June 13, from 9 a.m. to noon at the Western Upper Peninsula Health Department, located at 540 Depot St. in Hancock**. Note: This program does not apply to Michigan Tech-owned electronics, as they are recycled through the University's e-waste program. Among the items to be accepted are computers and accessories, microwave ovens, stereos, TVs and monitors, DVD players, VCRs, cordless telephones and electronic ballasts; the charge is 10

cents a pound. Fluorescent tubes and compact fluorescent bulbs will be accepted at a charge of 50 cents each; alkaline batteries will be accepted for 85 cents a pound; and rechargeable batteries and cell phones with batteries will be recycled at no charge. For more details, see [www.wupdhd.org](http://www.wupdhd.org) and click on the RSVP Electronics Recycling link or call Barb Maronen at the Health Department (482-7382). Collections open to all Western UP residents will also be held in Baraga and Ontonagon Counties on July 11. If you have still-usable electronic items to donate, check if you can donate them to local thrift shops, such as Goodwill, Salvation Army or St. Vincent de Paul. Reusing is even better than recycling.

#### 5. OAP Sturgeon River Canoe/Kayak Trip Saturday **TOMORROW!**

Join the Outdoor Adventure Program for canoeing/kayaking on the Sturgeon River Saturday, June 13. The program will transport participants to the site, a section of the river near Chassell that is "a great day paddle with very few rapids," according to Jared Johnson, director of student activities. Cost is \$15 for Michigan Tech faculty, staff and students and \$20 for community members and covers canoe or kayak rental, lunch, a guide and transportation. Participants should meet at the Outdoor Adventure Program Rental Center, on the lower level of the Memorial Union, at 8:45 a.m. and will be returned to campus around 1 p.m. To sign up, visit the rental center. If you have any questions, contact the program at 487-2290 or [oap@mtu.edu](mailto:oap@mtu.edu).

#### 6. Professor Barry Solomon (Social Sciences) presented a paper, "Biofuels and Sustainability"



SFI member Barry Solomon (Social Sciences) presented a paper, "Biofuels and Sustainability," and chaired a session, "Alternative Energy Options and Policy Analysis," at the 5th Bi-Annual Conference of the United States Society for Ecological Economics, held May 31-June 3 at American University in Washington, DC.

### SUSTAINABILITY NEWS

#### 1. Green Chemistry Firm Is First Bioeconomy Institute Tenant in Holland, Michigan

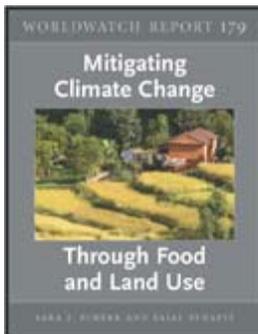


#### MSU Bioeconomy Institute

<http://www.wjw.com/Green-Chemistry-Firm-Is-First-Bioeconomy-Institute/4550117>

A Michigan State University technology spinoff company is the first tenant in MSU's new Bioeconomy Institute, located in a former Pfizer Inc. laboratory in Holland. Biochemistry professor Rawle Hollingsworth has operated his company, AFID Therapeutics Inc., in laboratory space at MBI International in Lansing since 2004, developing technology licensed from MSU. It now will tap West Michigan talent and resources to expand development work. Hollingsworth's research on complex carbohydrates derived from biomass and sugars forms the basis for developing high-value chemical compounds. The compounds can be used to create drugs for infectious diseases and autoimmune, cardiovascular and neurological disorders, as well as specialty chemicals for other purposes. <http://www.wjw.com/Green-Chemistry-Firm-Is-First-Bioeconomy-Institute/4550117>

#### 2. New Developments in Climate Negotiators



Two news items last week regarding coal and carbon sinks are potentially hopeful signs for our planet's climate--and could have a positive bearing on negotiations in Copenhagen this December, according to an op-ed by Senior Researcher Gary Gardner. A *U.S. Geological Survey* report suggests that economically extractable coal reserves in the U.S. could be substantially less abundant than was previously thought. Meanwhile, more is being learned about the potential of the world's forests and farmlands to soak up atmospheric carbon.

Read: OPINION: Two Developments Climate Negotiators Should Heed  
<http://www.worldwatch.org/node/6151?emc=el&m=255477&l=5&v=4804a3f893>

New Worldwatch Report: Mitigating Climate Change Through Food and Land Use  
<http://www.worldwatch.org/node/6126?emc=el&m=255477&l=6&v=4804a3f893>

### 3. Push to develop new biotech centers

Yesterday's (June 11) *New York Times* reported on efforts by several cities (e.g. Kannapolis, N.C., Shreveport, La., and Huntsville, Ala.) to use tax payer money to entice researchers to establish centers for biotechnology in the hopes of energizing local economies. Most of these biotech investments relate to drug and medical research, but biofuels are also mentioned. See "Despite Odds, Cities Race to Bet on Biotech" By Shaila Dewan Published: June 10, 2009  
[http://www.nytimes.com/2009/06/11/us/11biotech.html?\\_r=1&emc=eta1](http://www.nytimes.com/2009/06/11/us/11biotech.html?_r=1&emc=eta1)

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## SEMINARS

### 1. Training Water Committees in Bocas del Toro, Panama: A Case Study of Peace Corps Volunteers' Initiative to Improve Rural Water System Management

MS Defense: Brandon Braithwaite, Civil Engineering

David Watkins, Advisor

Friday, June 19, 2009 DOW 875

1:00 pm

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## FUNDING & AWARD OPPORTUNITIES

*To submit research proposals through the Sustainable Futures Institute, add "SFI" to the DEPT/CENTER/INSTITUTE(S) column for identifying the PI's and co-PI's. 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. DOE, Golden Field Office, Recovery Act - Demonstration of Integrated Biorefinery Operations

Due date: Jun 30, 2009 Jun 30, 2009

Modification 1

Expected Number of Awards: 15  
Estimated Total Program Funding: \$480,000,000  
Award Ceiling: \$50,000,000  
Award Floor: \$0  
Cost Sharing or Matching Requirement: Yes

The intent of this Funding Opportunity Announcement (FOA) will be to select integrated biorefinery projects that have the necessary technical and economic performance data that validates their readiness for the next level of scale-up. In general, "integrated biorefineries" employ various combinations of feedstocks and conversion technologies to produce a variety of products, with the main focus on producing biofuels and bioproducts. Co- or by-products can include additional fuels, chemicals (or other materials), and heat and power. For the purpose of this FOA, the term "integrated biorefinery" is a facility that uses an "acceptable feedstock" (as defined in the FOA), to produce a biofuel or bioproduct as the "primary product" (as defined in the FOA) and may produce other products including additional fuels, chemicals (or other materials), and heat and power as co-products. These integrated biorefineries would produce, as their primary product, a liquid transportation fuel that supports, depending on topic area, meeting the advanced, renewable or advanced biofuels portion of the Energy Independence and Security Act of 2007 (EISA) Renewable Fuel Standards (RFS) or, depending on topic area, a bioproduct that substitutes for petroleum-based feedstocks and products. DOE encourages applications that propose novel or breakthrough technologies and those that include appropriate collaboration between and among industry, academia, and DOE National Laboratories, FFRDCs (Federally Funded Research and Development Centers) or other government-funded facilities.

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47227>

### 2. DOE Golden Field Office Recovery Act: National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development

Modification 4

Current Closing Date for Applications: Jul 15, 2009

Award Ceiling: \$4,500,000

Cost Sharing or Matching Requirement: Yes

This Program Announcement seeks to provide support for new research and development projects for Next Generation PV Technologies (Topic 1), PV Supply Chain and Crosscutting Technologies (Topic 2), and Advanced Heat Transfer Fluids and Novel Thermal Storage for Concentrating Solar Power (Topic 3). This PA also seeks to enhance capabilities for testing and evaluating advanced CSP concepts (Topic 4) and advanced Photovoltaics manufacturing capability (Topic 5).

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47577>

### **3. DOE Golden Field Office Recovery Act: High Penetration Solar Deployment Modification 8**

Current Closing Date for Applications: Jul 30, 2009

Award Ceiling: \$5,000,000

Cost Sharing or Matching Requirement: Yes

The objectives of this FOA are to 1) develop the needed modeling tools and database of experience with high penetration scenarios of PV on a distribution system, 2) develop monitoring, control and integration systems to enable cost-effective widespread deployment of small modular PV systems and 3) demonstrate the integration of PV and energy storage into Smart Grid applications. This will accelerate the placement of high levels of PV penetration into existing or newly designed distribution circuits. The achievement of these goals will facilitate increased growth of grid-tied PV installations, thus supporting the Solar Energy Technology Program's (SETP) mission to accelerate widespread commercialization of clean solar energy technologies in the United States (U.S.).

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47579>

### **4. DOE Golden Field Office Recovery Act: Solar Market Transformation Modification 3**

Current Closing Date for Applications: Jul 30, 2009

Award Ceiling: \$6,000,000

Award Floor: \$100,000

Cost Sharing or Matching Requirement: Yes

Topic 1 DOE is looking for the Solar America Cities to scale-up innovative programs and concepts so they can be tested in a broader marketplace; thereby, increasing the likelihood of replication in other U.S. cities. Such an approach recognizes the city's role as an important end user of electricity, as a key intermediary to other end users within their jurisdiction, and as a regulatory entity. DOE expects award recipient cities to develop projects that support their city-wide solar implementation plans. Projects must tackle specific barriers important to urban solar and must be replicable at some level among fellow Solar America Cities, other cities and local governments, states, and internationally. Topic 2 intends to address the workforce development needs of the solar industry, both for grid-tied PV systems in residential, commercial, and utility markets, and for SHC systems. Funded activities are not intended to support off-grid PV applications. The overall goal of this FOA is to promote an increase in the quality and availability of instruction relating to the installation of PV and SHC systems. This is a restricted eligibility. Topic 1: In accordance with 10 CFR 600.6(b) eligibility for award is restricted to the existing 25 Solar America Cities awarded under the FY07 Solar City Strategic Partnerships Funding Opportunity Announcement DE-PS36-07GO97007 and the FY08 Solar City Strategic Partnerships Funding Opportunity Announcement DE-PS36-08GO98003. Topic 2: is open to all domestic entities and institutions. <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47586>

### **5. DOE Golden Field Office Recovery Act: Wind Energy Consortia between Institutions of Higher Learning and Industry Modification 1**

Current Closing Date for Applications: Jul 29, 2009

Expected Number of Awards: 2

Estimated Total Program Funding: \$24,000,000

Award Ceiling: \$12,000,000

Award Floor: \$8,000,000

Cost Sharing or Matching Requirement: Yes

Eligibility is restricted to consortia led by an institution of higher learning. The consortia must include at least one four-year institution of higher learning that has at least one engineering program that is accredited by the Accreditation Board for Engineering and Technology (ABET). This action will fund consortia between institutions of higher learning and industry that will perform focused research on critical wind energy challenges. These funds will be provided under the American Recovery and Reinvestment Act of 2009 to preserve and create jobs, promote economic recovery, and provide investments needed to increase wind energy R D. The funding will be focused on two complementary areas, but not separate topics: Topic Area 1: Partnerships for Wind Research and Turbine Reliability: Universities in regions of the country in a Power Class 3 at 50 meters or greater wind region with consistent wind resources throughout the year are encouraged to team with industry partners to establish facilities/equipment and a research agenda necessary to study major challenges facing today's wind industry. Proposals must address one or more challenges described in the "20 Percent Wind Energy by 2030" report and shall include descriptions of how the wind hardware and software will be acquired. DOE highly encourages research in "turbine reliability" as a topic in any consortia proposal. Topic Area 2: Wind Energy Research Development: University R D to advance material design, performance measurements, analytical models, and leveraging partnerships with industry to improve power systems operations, maintenance or repair operations, wind turbine and/or component manufacturing, and interdisciplinary system integration. Fellowships, internships, etc. may be used to support the research agenda. Universities are encouraged to partner

with the wind industry in defining their R D agenda, developing their curriculum, and intern partnerships.

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47732>

#### **6. DOE Golden Field Office Recovery Act: Energy Efficient Information and Communication Technology Modification 1.**

Current Closing Date for Applications: Jul 21, 2009

Expected Number of Awards: 15

Estimated Total Program Funding: \$50,000,000

Award Ceiling: \$10,000,000

Cost Sharing or Matching Requirement: Yes

The energy used by our nation's vital telecommunications and data centers is growing at an alarming rate. As information technology and communications services continue to slowly converge, the data center and telecommunications industries face increasingly similar challenges to control the power usage of their microprocessors or servers and supporting power and cooling systems. The electricity consumed in data centers and telecom systems is already three percent of the U.S. total and growing rapidly. In the face of growing global energy demand, uncertain energy supplies, and volatile energy prices, innovative solutions are needed to radically advance the energy efficiency of these systems, which represent the engine of the American economy today. Enhanced energy efficiency in the central offices and data centers supporting our information, communications technology (ICT) systems will enhance U.S. energy and economic security. This Funding Opportunity Announcement seeks to develop new technologies to dramatically improve energy efficiency in ICT with an emphasis on new technologies that can be commercialized within the next three to five years, and to demonstrate through field testing highly energy efficient, emerging technologies that are ready for or are in the initial stage of commercial introduction.

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&opId=47742>

#### **7. National Fish Passage Program United States Department of the Interior (DOI) U.S. Fish and Wildlife Service (FWS)**

Deadline: Oct 1, 2009

Amount: \$800,000

The U.S. Fish and Wildlife Service is announcing the availability of funding habitat restoration through the National Fish Passage Program. The Fish and Wildlife Coordination Act authorizes the Secretary of Interior to provide technical and financial assistance through the National Fish Passage Program to partners interested in restoring, enhancing, and managing fish and wildlife habitats. These funds are available for habitat restoration projects that address high priority aquatic habitats. Projects must provide direct benefits to Federal Trust species (i.e., migratory birds, threatened and endangered species, inter-jurisdictional fish, certain marine mammals, and species of international concern).

<http://fundingopps.cos.com/alerts/92307>

#### **8. DOE National Energy Tech Laboratory Combined Heat and Power Systems Technology Development and Demonstration**

Current Closing Date for Applications: Jul 07, 2009

Award Ceiling: \$30,000,000

Award Floor: \$250,000

Cost Sharing or Matching Requirement: Yes

This FOA is funded by programmatic funds not ARRA funds and has standard reporting requirements. It focuses on achieving very high efficiencies with CHP systems that are not currently in production. The three (3) Areas of Interest are based on the output range of the CHP system, as follows:

Area of Interest 1: Large CHP Systems (less than or equal to 20 MW) Area of Interest

2: Medium CHP Systems (less than or equal to 1MW to less than 20 MW) Area of Interest

3: Small CHP Systems (less than or equal to 5kW to less than 1 MW)

All three Areas seek applications that will perform research, development and demonstration of technologies that increase the efficiency and reduce the cost of CHP systems. This FOA is targeted at meaningful technical advancements that will broaden CHP economic and environmental value propositions in vastly under exploited vertical market segments. Concurrently, strategic demonstrations are sought that will address the risk averse nature of potential CHP users, including concerns on the impact on electricity grid operations, regulatory paradigms and business models that have the effect of inhibiting CHP growth. Demonstrations should be aimed at accelerating the project development process through collaborative partnerships with key industry partners. Key technologies are those capable of sizable energy savings and corresponding GHG emissions while providing a least cost approach to compliance with relevant emissions regulations. All technologies shall have a defined pathway to commercialization.

All three Areas of Interest seek applications that will substantially improve the energy efficiency of the U.S. industrial sector through funding cost-shared R D projects in developing innovative technologies that are:

(1) highly efficient,

(2) meet future emission requirements, and

(3) replace or mitigate natural gas usage.

Because of the critical impact that natural gas increases have had across industry the applications will focus on technologies that typically use gaseous fuels. In addition to more efficient use of natural gas, the use of alternatives such as landfill gas, digester gas, coal derived synthetic gas, oil field waste gas, or other alternative gaseous fuels would be appropriate. Applications are sought for Research, Development, and Demonstration projects which will continue through Stage 4. Projects shall include an integrated CHP system demonstration in Stage 4. A minimum of three months of operation will be required. The following applications are considered non-responsive and will not be reviewed: A. Applications performing research in ITP Stages 1, 2, or 5 B. Applications which do not include demonstration of an integrated CHP system. C. Applications for systems below 5 kW. <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppld=47858>

#### **9. DOE National Energy Technology Laboratory--Recovery Act - Systems Level Technology Development, Integration, and Demonstration for Efficient Class 8 Trucks (SuperTruck) and Advanced Tech Powertrains For Light-Duty Vehicles (ATP-LD)**

Current Closing Date for Applications: Sep 09, 2009

Expected Number of Awards: 11

Estimated Total Program Funding: Award Ceiling: \$95,000 Award Floor: \$45,000

Cost Sharing or Matching Requirement: Yes

The goal of Area of Interest 1 is to develop and demonstrate a 50% improvement in overall freight efficiency on a heavy-duty Class 8 tractor-trailer measured in ton-miles per gallon. This improvement will be achieved through the application of advanced vehicle system technologies and advanced engine technologies. At least 20% of the improvement will be through the development of an engine capable of achieving 50% Brake Thermal Efficiency (BTE). Over the 3 to 5 year period of this activity, the selected participants will develop, test, and ultimately demonstrate these advanced technologies on a full-scale vehicle. A pathway to compliance with prevailing federal safety and environmental regulations must be shown. Candidate vehicle system technologies may include reductions in aerodynamic drag, vehicle mass, and rolling resistance, and other technologies as appropriate. Electrical or mechanical drivetrain hybridization, including energy storage/regeneration and main engine idle and other ancillary load reductions, may also be considered.

In an effort to bring the best possible resources to bear on this transformational vehicle development, teams are expected to include but are not limited to a vehicle OEM, engine manufacturers and critical suppliers. The project will be organized in phases with well-defined stage gates at the end of each phase. An in-depth review will be held at the end of each phase and a determination made concerning continuing the project into the next stage. Changes to DOE program priorities as well as the current state of technology and the marketplace will be factors considered when making decisions to proceed. The goal of Area of Interest 2 is to accelerate the development of cost-competitive engine and powertrain systems for light-duty vehicles capable of attaining breakthrough thermal efficiencies while meeting future emissions standards. Development of the engine and powertrain system can include improvements to in-cylinder combustion, engine mechanics, waste heat recovery, friction reduction, emission control, fuels, materials, electrification, and reduced ancillary load requirements. The engine system can be designed to accommodate a hybrid system, CVT or other advanced transmission. The project will be organized in phases with well-defined phase gates at the end of each phase. Over the three-to-five year period of this activity, the selected participants will develop, test and eventually demonstrate these advanced technologies and the associated efficiency gains on an engine dynamometer and full-scale vehicle. Emissions will be measured to show compliance. Technologies that are compatible with or can support future fuels and are adaptable to bio-fuels with relatively minor modifications will be taken into consideration during the comprehensive merit evaluation process. Achievement of the stated fuel economy goals may require improvements to the entire powertrain system although engine system efficiency improvements will play a significant role in this effort. In order to bring the best possible resources to bear on this problem, appropriate teaming arrangements among suppliers, national labs, universities, and vehicle OEMs are encouraged. Proposed activity coincides with the multi-year program plan and Fiscal Year 2010 to 2014 budgets. <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppld=47867>

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

##### **1. A new online journal, *Ecopsychology*, is seeking articles for an upcoming special issue**

A special focus issue on "Emotional Well-being and Sustainable Behaviors" that explores links between pro-environmental behaviors—including conservation efforts, "green" consumption or lifestyles, and environmental advocacy—and health, identity, and subjective well-being. Please join this effort by submitting an article by August 14, 2009.

Articles on other key topics in the field including:

- \* The role of connection to nature in healthy development and self identity
- \* Emotional and psychological factors that drive environmental issues

- \* Ecotherapy and the use of wilderness for health and healing
- \* Coping with anxiety or grief about environmental destruction
- \* Effective ways to motivate sustainable behaviors
- \* Spiritual and cultural practices that support a healthy environment

Read author instructions and submit your paper to Ecopsychology today.

<http://www.liebertpub.com/products/product.aspx?pid=300>

**2. Director, MBA in Sustainable Enterprise, Dominican U of California**

The Dominican University of California seeks a Program Director for its MBA in Sustainable Enterprise. The Program Director oversees all internal Green MBA program functions and ensures their academic and administrative coordination, both within the School of Business and Leadership, and within the University in general. Concurrently, the Program Director serves an active role in external functions which support and promote the Green MBA program's mission to prospective students, the general public, many types of enterprises and organizations, and local, national, and international communities as potential partners in its mission. 10 years of senior experience level management is required, as is a Master's degree. Applications are due June 17, 2009.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175375795>

**3. Senior Faculty, Energy, Resources, & Environment, Johns Hopkins U**

The Johns Hopkins University (DC) School of Advanced International Studies is seeking to fill a tenured position at the level of associate or full professor of international energy and environmental policy studies. The successful candidate will direct the Energy, Resources, and Environment Program at SAIS. The ideal candidate will have a record of outstanding academic research and excellence in teaching, and a Ph.D. or other equivalent degree in an appropriate field. Preference will be given to applicants with an interest in traditional and alternative energy technologies, the geopolitics of energy, or the environment. The application review period will begin on October 15, 2009 and will remain open until the position is filled.

<http://chronicle.com/jobs/id.php?id=0000601520-01&pg=s&cc=>

**4. Instructor, Environmental Studies, Bowling Green State U**

Bowling Green State University (OH) is seeking an instructor for the 2009/2010 academic year to teach introductory environmental studies courses and one upper division field/lab based course on integrative approaches to environmental monitoring of natural areas. Qualifications include a master's degree in an environmentally related field, knowledge of environmental field and laboratory techniques, and evidence of ability to teach effectively at the undergraduate level. Applications are due July 1, 2009.

<http://www.higheredjobs.com/search/details.cfm?JobCode=175375970>

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**EVENTS & CONFERENCES**

**1. 2009 Joint Conference – Call for Presentations Lake Michigan: State of the Lake and Great Lakes Beach Assoc.**

September 29 – October 1, 2009

Hyatt Regency, Milwaukee, WI

<http://www.aqua.wisc.edu/solm/>

deadline to submit abstract: June 26, 2009

**2. CFP Seventh National Monitoring Conference - Monitoring From the Summit to the Sea National Water Quality Monitoring Council (NWQMC)**

April 25-29, 2010

Denver, Colorado

Call for Papers – deadline to submit abstract: September 19, 2009

<http://acwi.gov/monitoring/conference/2010/index.html>