

***SFI weekly newsletter for the week of
September 14, 2009
A weekly service of SFI***



SFI NEWS AND ANNOUNCEMENTS

1. Michigan Tech Win Ford Grants for students to collaborate with New Power Tour
2. Call for Posters --SFI Banquet and Poster Session, Friday, October 16th
3. WUD-UP! World Usability Day Comes to Houghton
4. D80 Conference: TODAY is the last day to submit presentations!
5. Garbage Moguls Tom Szaky Lecture Thursday, September 24 7:30pm at the Rosza
6. Story about Center for Science and Environmental Outreach's Family Engineering program in Tech Today
7. Jarron Hewitt (CEE) & mentor Marty Auer (CEE) study storm water discharges in Iron Mountain's Crystal Lake

SUSTAINABILITY NEWS

1. MSU research in green energy
2. Breakthrough on Open Access from Inside HigherEd September 15, 2009
3. Cash for Clunkers program improved average mileage in U.S. by 3% according to a U of M study
4. Less than 25% of signatories of the Presidents Climate Commitment meet report deadline

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1. Research in the Forestry Peace Corps Master's International Program Monday, September 21, 2009
2. The Isle Royale Institute National Marine Group International 2009 Brown Bag Lunch Lecture Series
3. Alex Mayer to give poster design workshop in Room 242 in Library Thursday, September 24, 2009
4. Richard Donovan, Sustainable Futures Institute Monday, September 28, 2009

FUNDING & AWARD OPPORTUNITIES

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3. ERDC BAA - Groundwater (CHL-7)
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7. ERDC BAA - Computer-Aided Hydraulic Engineering (CHL-6)

JOBS & POST DOCS, INTERNSHIPS, FELLOWSHIPS, and SCOLARSHIPS

1. Opening at the University of Wisconsin Aquatic Sciences Center for Communications Manager
2. Sustainability Coordinator, Transylvania U
3. Faculty, Sustainable Design, Evergreen State College
4. Small Business Sustainability Counselor, U Texas Arlington
5. Faculty, Environmental Policy, Santa Clara U
6. Harvard University Sustainability Science Program Center for International Development
7. International Institute for Applied Systems Analysis (IIASA) recruiting Research Assistant
8. The Transitions to New Technologies (TNT) program at IIASA recruiting
9. Scholarship Awards to attend a M.Sc. Degree in Renewable Energy Science in Iceland

NEW RESOURCES

1. Research in the Forestry Peace Corps Master's International Program Monday, September 21, 2009
2. The Isle Royale Institute National Marine Group International 2009 Brown Bag Lunch Lecture Series
3. Alex Mayer to give poster design workshop in Room 242 in Library Thursday, September 24, 2009

Michigan Tech's campus on Thursday, November 12, 2009. The 2009 theme is "Designing for a Sustainable World." info is at www.worldsustainabilityday.org Plans will be released soon.

2. D80 Conference: **TODAY** is the last day to submit presentations!

This year's D80 Conference will be Saturday October 17, 2009 (9 am to 5 pm) in the Ballroom of the Memorial Union Building on the campus of Michigan Tech. This conference highlights student research and service that create solutions to difficult challenges confronting the poorest 80% of humanity. Please consider presenting your research or service project at this year's conference. We have been averaging 250 attendees, so this is a good venue to share and learn among a wonderful community of international scholars. Conference attendance is open to students, faculty, and staff at any university, as well as the general public. Cost is *free* but registration is required. Submission of presentations closes on September 18, 2009.

Registration for attendees closes on September 30, 2009.

You can find the registration directly at:

http://www.surveymonkey.com/s.aspx?sm=8Y_2fjMqd4u9g5r9HsnLYJlw_3d_3d or via the D80 web site: www.d80.mtu.edu



Michigan Tech's D80 Center is a consortium of 15+ international sustainable development programs focused on creating a better future for all participants through the solution of the world's greatest challenges for the poorest 80% of humanity. Go. Learn. Contribute. Repeat.

3. Garbage Moguls Tom Szaky Lecture Thursday, September 24 7:30pm at the Rosza

Recycling gets a makeover with a quirky group of young "eco-capitalists" at TerraCycle, Inc. Using only materials found in the trash, the Garbage Moguls team will transform cereal boxes into notebooks, newspaper into pencils and cookie wrappers into kites. TerraCycle in New Jersey is a company that attempts to develop products made from garbage and turn it into a profit.

<http://channel.nationalgeographic.com/episode/garbage-moguls-4314/Overview#tab-Photos/4#ixzz0RTINv0gE>

Read more:

<http://channel.nationalgeographic.com/episode/garbage-moguls-4314/Overview#ixzz0RTHkzeQ1>

4. Story about Center for Science and Environmental Outreach's Family Engineering program in Tech Today

The CSEO's Family Engineering program features efforts by Neil Hutzler and Joan Chadde to inspire families to become more interested in STEM careers. The program is funded by Foundation for Family Science, the American Society for Engineering Education and the Boston Museum of Science

<https://huskymail.mtu.edu/zimbra/?client=advanced#32>

5. Jarron Hewitt (CEE) & mentor Marty Auer (CEE) study storm water discharges in Iron Mountain's Crystal Lake

See more in Tech Today article at: <http://www.admin.mtu.edu/urel/ttoday/previous.php?issue=20090908>

SUSTAINABILITY NEWS

1. MSU research in green energy

MSU College of Engineering is working to improve the world's alternative energy future thanks to three grants totaling \$141.5 million.

<http://www.wjw.com/MSU-Researchers-Lead-The-Way-In-Green-Energy/5241905>

2. Breakthrough on Open Access from Inside HigherEd September 15, 2009

For years, as more academics have embraced "open access" publishing -- in which journals are published online and free -- a constant refrain from many publishers has been that the model would deprive them of the revenue they need for high quality editing and peer review. That argument was at the center of a recent report on the economics of journal publishing commissioned by the National Humanities Alliance. On Monday, five leading universities announced a new "Compact for Open Access Publishing Equity" in which they have pledged to develop systems to pay open access journals for the articles they publish by the institutions' scholars. In doing so, the

institutions are attempting to put to rest the idea that only older publication models (paid and/or print) can support rigorous peer review and quality assurance. The institutions that issued the pledge are MIT, Cornell University, Dartmouth College, Harvard University and the University of California at Berkeley.
<http://www.insidehighered.com/news/2009/09/15/open>

3. Cash for Clunkers program improved average mileage in U.S. by 3% according to a U of M study

In August the average mileage was 22.4 mpg under Cash for Clunkers.

More from the Great Lakes IT Report Web site <http://www.wwj.com/pages/5215560.php>

4. Less than 25% of signatories of the Presidents Climate Commitment meet report deadline

The deadline for submission of climate action plans by close to 400 signatories of the American College and University Presidents Climate Commitment came and went Tuesday with not even a quarter of those institutions submitting blueprints on time. <http://www.insidehighered.com/news/2009/09/17/climate>

SEMINARS

1. Research in the Forestry Peace Corps Master's International Program Monday, September 21, 2009

Blair Orr, School of Forest Resources and Environmental Science Environmental Engineering Seminar Series
Dow 642 3:00 pm

2. The Isle Royale Institute National Marine Group International 2009 Brown Bag Lunch Lecture Series

Presented by Ken Vrana and Brian Abbott, **Tuesday, Sept 22** in Academic Offices Building, 201 12:00-1:00 pm
Underwater Archaeology at the Isle Royale Institute: Baseline Documentation of the Underwater Components of Coastal Archaeological Sites using High-Resolution Sector Scanning Sonar
View Abstract at: http://www.mtcws.mtu.edu/pdf/2009_abstract_IRIflyer-1.pdf

3. Alex Mayer to give poster design workshop in Room 242 in Library Thursday, September 24, 2009

Dr. Alex Mayer, Director of Center for Water and Society, will give offer a template that can be adapted for use in posters suitable for such events as the SFI Poster Session on October 16th, the World Usability Day poster session on November 12th, and the CWS World Water Day Poster Session in March 2010. NOTE: please pre-register with Denise Heikinen at dmheikin@mtu.edu so she can forward the poster template to be downloaded in the workshop classroom.

4. Richard Donovan, Environmental Engineering Seminar Series Monday, September 28, 2009

Operations Manager, Senior Engineer and Scientist, Sustainable Futures Institute
Dow 642 3:00 pm

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. 2010 Academic Year EPA Greater Research Opportunities (GRO) Fellowships for Undergraduate Environmental Study

U.S. Environmental Protection Agency's National Center for Environmental Research (NCER)

December 10, 2009 approximately 30 new fellowships by July 30, 2010

The U.S.EPA, as part of its Greater Research Opportunities (GRO) program, is offering Greater Research Opportunities (GRO) undergraduate fellowships for bachelor level students in environmental fields of study. Eligible students will receive support for their junior and senior years of undergraduate study and for an internship at an EPA facility during the summer between their junior and senior years. The fellowship provides up to \$19,250 per year of academic support and up to \$8,000 of internship support for a three-month summer period.

http://www.epa.gov/ncer/rfa/2010/2010_gro_undergrad.html

2. ERDC BAA - Open Channel Flow and Sedimentation (CHL-3)

DOD, Department of the Army, U.S. Army Corps of Engineers (USACE)

Deadline: Continuous. Proposals may be submitted at any time.

The Coastal and Hydraulics Laboratory (CHL) announces opportunities for open channel flow and sedimentation research. The Stable Flood Control Channel research project consists of basic studies related to development of hydraulic design guidance for designing modifications to natural stream channels to provide for local flood protection. Emphasis is placed on channel stability as well as channel flow capacity. <http://fundingopps.cos.com/alerts/28394>

3. ERDC BAA - Groundwater (CHL-7)

DOD, Department of the Army, U.S. Army Corps of Engineers (USACE)

The Coastal and Hydraulics Laboratory announces opportunities for computer-aided hydraulic engineering research. The objective of this research program is to develop computer-aided design tools that can be used by hydraulic engineers in planning, design, construction, operation, and maintenance of navigation and flood control projects. The scope includes open channel and closed conduit flows, equipment, structures, and sediment transport analysis and modeling.

<http://fundingopps.cos.com/alerts/28398>

4. ERDC BAA - Wetlands (EL-25)

DOD, Department of the Army, U.S. Army Corps of Engineers (USACE)

Deadline: Continuous.

The Environmental Laboratory (EL) announces research opportunities involving wetlands. Wetlands research, especially as it pertains to wetlands restoration and development, has been occurring as an ongoing activity of the Corps of Engineers for the past two decades, primarily as a secondary or minor objective of navigation or flood control objectives. The EL has been at the forefront in developing the technology that allowed this important wetlands work to take place, has developed a number of these wetlands, and has developed long-term monitoring methodologies to document the progress and ecological succession of these wetlands. In addition, methodologies for delineating and evaluating wetlands on a national basis that have become the mandatory wetlands regulatory framework for federal agencies have been developed. This research is expected to continue as part of a series of wetlands task areas. Research task areas outlined below will be conducted both in-house at EL, with other agencies, or will be contracted. Studies must be short term due to funding and time constraints, and must address one or more of the research tasks.

<http://fundingopps.cos.com/alerts/28488>

5. ERDC BAA - Economic Impacts of Recreation Management (EL-32)

DOD, Department of the Army, U.S. Army Corps of Engineers (USACE)

The purpose of this topic is to advance techniques to assess economic impacts of recreation-resource management and for estimation of use in and beyond developed parks. The contractor will investigate and develop regional recreation demand models for application to water resource system studies.

<http://fundingopps.cos.com/alerts/58221>

6. ERDC BAA - Structures Research (Civil Works) (GSL-19)

United States Department of Defense (DOD)

Department of the Army

U.S. Army Corps of Engineers (USACE)

<http://fundingopps.cos.com/alerts/28441>

7. ERDC BAA - Computer-Aided Hydraulic Engineering (CHL-6)

DOD, Department of the Army, U.S. Army Corps of Engineers (USACE)

The Coastal and Hydraulics Laboratory announces opportunities for computer-aided hydraulic engineering research. The objective of this research program is to develop computer-aided design tools that can be used by hydraulic engineers in planning, design, construction, operation, and maintenance of navigation and flood control projects. The scope includes open channel and closed conduit flows, equipment, structures, and sediment transport analysis and modeling.

<http://fundingopps.cos.com/alerts/28397>

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

1. Opening at the University of Wisconsin Aquatic Sciences Center for Communications Manager

Application deadline is Sept. 30, 2009

The ASC administers the UW Sea Grant Institute and UW Water Resources Institute, which support multidisciplinary research, education and outreach for the protection and sustainable use of Wisconsin's water resources. Required degree and experience: Bachelor's degree plus at least 5 years experience managing a communications or media relations team conveying scientific or technical subjects to wide audiences. Preferred background: Master's degree in a scientific field or in journalism, public relations, or related field plus at least 5 years experience communicating biological, aquatic or environmental science and research in higher education institutions. For details on how to apply and a detailed description of this position, please see the online position vacancy listing: http://www.ohr.wisc.edu/pvl/pv_062660.html www.aqua.wisc.edu

2. Sustainability Coordinator, Transylvania U



Transylvania University (KY) invites applications for a part-time sustainability coordinator. The successful candidate will coordinate the University's energy conservation and energy education initiatives; develop, implement, and maintain the University's energy policy, energy master plan, and climate action plan; and document and analyze energy consumption. Other duties will include coordinating the development and implementation of an energy education workshop for faculty geared at integrating sustainability across the University's curriculum; coordinating the development and implementation of a major student-centered sustainability event; and maintaining the content of the sustainability website. A bachelor's degree in environmental studies or a related field and at least two years of related experience are required. Applications are due September 25, 2009. The position will remain open until filled. <http://www.mycareernetwork.com/clientResumeMgr/jobDetails.asp?jid=86745&cid=4637>

3. Faculty, Sustainable Design, Evergreen State College

The Evergreen State College (WA) seeks a designer, artist, or design-oriented engineer to teach sustainable design in a setting of team-taught, interdisciplinary programs which evolve from year to year, and are full time for both faculty and students. Candidates should have a record of creative practical experience, demonstrated commitment and ability in teaching sustainable design/construction or environmental art forms, the capacity to bridge between these fields and environmental studies, and understanding and ability to address community and environmental justice in relation to sustainability. A master's degree or higher in a 3D art form, architecture or landscape architecture, sustainable design, engineering, or an environmental studies related field is required. Review of applications begins January 4, 2010, and will continue until finalists are selected.

<http://www.evergreen.edu/facultyhiring/jobs/sustainabledesign-10.htm>

4. Small Business Sustainability Counselor, U Texas Arlington

The University of Texas at Arlington is seeking a small business sustainability counselor. Responsibilities will include identifying and building a company and resource network amongst the North Texas small business community. The successful candidate will also assist small businesses regarding sustainable business practices. A master's degree in business administration, communication, adult education or a related field is required. The position is open until filled. <http://www.higheredjobs.com/search/details.cfm?JobCode=175389712>

5. Faculty, Environmental Policy, Santa Clara U

The Environmental Studies Institute at Santa Clara University (CA) invites applications for a tenure-track assistant professor position in environmental policy for fall 2010. The successful candidate will conduct research in one of the following areas: U.S. environmental policy, international environmental policy, environmental justice, urban planning, agricultural policy, or energy policy. Applicants should have a Ph.D. in environmental studies or related field. Applications are due November 15, 2009. November 15, 2009. <http://chronicle.com/jobs/0000608621-01>

6. Harvard University Sustainability Science Program Center for International Development

Due date for applications: December 1, 2009

Fellowships in Sustainability Science

The Sustainability Science Program at Harvard University's Center for International Development invites applications for resident fellowships in sustainability science for the University's academic year beginning in September 2010. The fellowship competition is open to advanced doctoral and post-doctoral students, and to mid-career professionals engaged in research or practice to facilitate the design, implementation, and evaluation of

effective interventions that promote sustainable development. Applicants should describe how their work would contribute to "sustainability science," the emerging field of use-inspired research seeking understanding of the interactions between human and environmental systems as well as the application of such knowledge to sustainability challenges relating to advancing development of agriculture, habitation, energy and materials, health and water while conserving the earth's life support systems. This year we will give some preference to applicants who address the challenges related to meeting human needs for water or food/agriculture/land use in the context of sustainable development. In addition to general funds available to support this fellowship offering, special funding for the Giorgio Ruffolo Fellowships in Sustainability Science is available to support citizens of Italy or developing countries who are therefore especially encouraged to apply. The Sustainability Science Program is directed by Professors William Clark and Michael Kremer, and Nancy Dickson. For more information on the fellowships application process see <http://www.cid.harvard.edu/sustsci/fellowship>

7. International Institute for Applied Systems Analysis (IIASA) recruiting Research Assistant

The Risk and Vulnerability (RAV) Program has an opening aimed at a candidate with experience in economic geography, risk analysis, and empirical research methods; a Ph.D. is desirable. The focus of the research will be on the sustainability and risks associated with renewable energy development in North Africa.

<http://www.iiasa.ac.at/Admin/PE/Jobs/2009-10-RAV-RA.html>

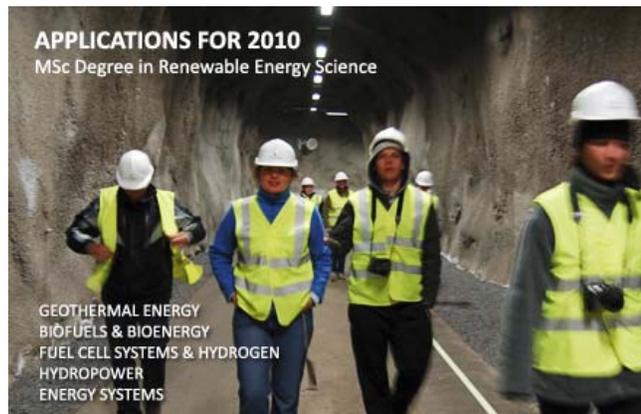
8. The Transitions to New Technologies (TNT) program at IIASA recruiting

The TNT opening is aimed at a candidate who is working towards an advanced degree (PhD) in energy economics, technology, climate change, environmental management and/or other relevant field, and who has familiarity with economic, social, energy and other statistical databases. Details about the job opportunities can be found on the IIASA web site at

<http://www.iiasa.ac.at/Admin/PE/Jobs/2009-09-TNT-RA.html>

9. Scholarship Awards to attend a M.Sc. Degree in Renewable Energy Science in Iceland

RES | the School for Renewable Energy Science in Iceland is now accepting applications for its one year (90 ECTS credits) international M.Sc. Degree Program in Renewable Energy Science, for the academic year 2010-11. The RES Program will in February 2010 complete its second year of operation when 38 masters' degree students from twelve different countries will graduate. The students are specializing in four different fields, namely Geothermal Energy, Biofuels & Bioenergy, Fuel Cell Systems & Hydrogen, and Energy Systems. Next year a specialization in Hydropower will be added in collaboration with Iceland's National Power Company (Landsvirkjun).



RES is a private institution of higher learning, a graduate school, affiliated with the University of Iceland in Reykjavik and the University of Akureyri in North-Iceland. RES is seeking limited number of highly qualified students to enroll in the M.Sc. Degree Program. A number of Scholarship Awards are also available for outstanding students, including half or full tuition fee waiver. Currently 80% of primary energy in Iceland comes from renewable energy sources, highest of any nation. Essentially 100% of electricity generation in Iceland is already from renewable energy sources. Therefore Iceland is a good example for other nations to follow on their route to a more sustainable energy future.

For more details about RES and the M.Sc. Degree Program please feel free to contact the Rector's Office at rector@res.is for further information, or visit our RES homepage at www.res.is

NEW RESOURCES

1. International Joint Commission on its 2007-09 Great Lakes Water Quality Agreement Priorities releases report

The reports kickoff an ongoing dialogue with the public on the critical issues of the nearshore, eutrophication, beaches and recreational water quality, chemicals of emerging concern, binational aquatic invasive species (AIS) rapid response, and the benefits and risks of Great Lakes fish consumption. Review the reports in English and French at <http://meeting.ijc.org/reports> The reports will serve as backgrounders for open discussions in workshops during the October 7 and 8, 2009, Biennial Meeting on Great Lakes Water Quality in Windsor, Ontario. See info in #4 entry under Events.

EVENTS & CONFERENCES

1. Call for Paper The 25th International Conference on Solid Waste Technology and Management Philadelphia, PA, U.S.A. March 14 - 17, 2010

Abstract submissions are invited for oral or poster presentation at the Conference. Abstracts are encouraged from all areas of solid waste technology and management. For more information or to submit an abstract for oral or poster presentation, please go to www.widener.edu/solid.waste. If you have any questions, please contact me at solid.waste@widener.edu

2. Dow Corning Begins Construction on 'Solar Day'

At an event the company called "Solar Day," Dow Corning Monday announced the start of construction in Saginaw County's Thomas Township of a manufacturing plant that will manufacture monosilane gas -- a key material used to manufacture thin-film solar cells. <http://www.wwj.com/pages/5215350.php?>

3. Call For Papers 5th Annual MiCorps Volunteer Monitoring Conference & Training at Higgins Lake Oct 26-27

The Michigan Clean Water Corps (MiCorps) conference and training is an annual event featuring afternoon training sessions (free of charge) for interested volunteer coordinators on Monday, October 26th, and presentations and dialogue on lake and stream monitoring activities in Michigan on Tuesday, October 27th. This year's conference will feature presentations from volunteers from across the state of Michigan. We will celebrate the amazing work that is being done by MiCorps volunteers and look at new steps in volunteer water monitoring to protect Michigan's lakes and streams. In addition, the conference will include presentations and training from regional experts, MiCorps staff and the Michigan Department of Environmental Quality. The conference is intended for volunteer monitoring program leaders, citizen volunteers, water resource professionals, and others interested in the health and protection of Michigan's rivers, lakes and streams. For more information on the conference or volunteer training, please contact Laura Kaminski, MiCorps staff, Great Lakes Commission, 734-971-9135, laurak@glc.org. The conference program and registration will be available in mid-September on our conference website: <http://www.micorps.net/conference>

4. Biennial Meeting on Great Lakes Water Quality in Windsor, Ontario, October 7 and 8, 2009

The Biennial Meeting is a unique binational forum where people on both sides of the border gather to discuss questions of highest priority for restoring the integrity of the Great Lakes. The Biennial meeting is where people can share ideas and concerns with the Commission to help inform its 15th Biennial Report to governments on Great Lakes Water Quality. Get involved and blog on these topics now starting with AIS at <http://meeting.ijc.org/blogs/> Registration is open at <http://meeting.ijc.org> and participation is free-of-charge.

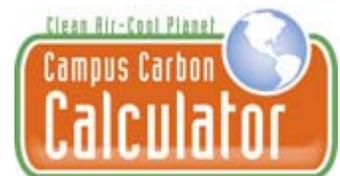
5. Webinar - Question Hour: Inventories and Projections

September 15, October 13, November 3, 2009; 3pm Eastern; Online

Clean Air-Cool Planet invites attendees to "Question Hour: Inventories and Projections," a webinar designed for institutions working on their first greenhouse gas inventory or on the projection module of the Campus Carbon Calculator.

Participants will have the chance to ask questions about their inventories and projections. Registration is limited to 10 people, and priority will be given to one question from each participant submitted by email in advance.

<http://www.cleanair-coolplanet.org/Webinar/Registration/registration.php#sep15>



6. Forum of Women in the Environmental Field Sep 23 2009 5:30pm - 7:30pm

Wellstone Center, Anna Heilmaier room, #212 179 Robie St E, St Paul, MN

A professional organization for women with careers in the environment; public and private sectors

Date: There's limited room for this event! Register soon to participate in this one-of-a-kind networking opportunity!

Cost: \$10 for students, \$12 for members, \$18 for non-members.

Join us for an evening of conversation and networking around the theme of mentorship. How can individuals working in the environmental field support each other? This question is of particular importance given the current economic downturn; the work we do is as important as ever, yet there seem to be fewer clear career opportunities. We can all benefit from hearing the experiences of others: their successes, their biggest obstacles, and what they have learned along the way. We can inspire others with our own stories. No matter what level of experience or career success we've reached, we can all be mentors.

A light dinner consisting of vegetarian appetizers and finger foods will be served. Coffee and water will also be available. \$18.00 <http://fwef.org/>

