SFI weekly newsletter for the week of October 26, 2009
A weekly service of SFI

SFI NEWS AND ANNOUNCEMENTS
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SUSTAINABILITY NEWS
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2. Biofuels Displacing Food Crops May Have Bigger Carbon Impact Than Thought
3. Research Experiences for Teachers (RET) in Engineering

SEMINARS
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   SFI Member Audrey Mayer, Social Sciences Monday, October 26, 2009 Dow 642 3:00 pm TODAY!
2. Using National Hydrologic Data Set in a GIS Based Model to Delineate Riparian Zones: An Intelligent Approach
   Monday, October 26, 2009 SFI Deputy Director Ann Maclean, SFRES M&M building, U113 4:00 pm TODAY!

FUNDING & AWARD OPPORTUNITIES
1. National Forest Foundation (NFF) Matching Awards Program (MAP)
2. Dynamics of Coupled Natural and Human Systems (CNH)

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2. Vice President, Sustainability & Energy Initiatives, Cuyahoga CC
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1. Campus Sustainability Discussion Forums

EVENTS & CONFERENCES
1. AASHE Sustainability Across the Curriculum Leadership Workshop January 7-8, 2010; Emory University
2. 2010 Smart & Sustainable Campus Conference CFP March 21-23, 2009; University of Maryland, College Park
3. Webcast – Getting Started on a Carbon Action Plan December 2, 2009; 2 – 3:30pm Eastern; Online
4. INTED-International Technology, Education and Development Conference March 8th to 10th

Please send announcements of your publications, presentations, awards, events, and names of awarded proposals to Denise Heikinen at dmheikin@mtu.edu.

SFI NEWS AND ANNOUNCEMENTS
1. SFI Celebrates Another Successful Year with 2009 SFI Poster Session and Banquet

The Sustainable Futures Institute held its Fifth Annual Poster Session and Banquet in the Rozsa Lobby on October 16th. **Dr. Charles Kerfoot** was keynote speaker for the event that featured several poster awards and the induction of **Dr. Alex Mayer** and **Dr. Michael Mullins** as the 2009 Distinguished Fellows as well as 17 Scholars of SFI. The event offered SFI students, staff, and faculty an opportunity to review some of its many successes throughout the year, view posters related to its many projects, and learn about some of the sustainability issues still facing us.

Keynote speaker for the event was **Dr. Charles Kerfoot**, Director of the Lake Superior Ecosystem Research Center. Dr. Kerfoot spoke about the new $25 Million Great Lakes Research Lab soon to be built at Michigan Tech on the Houghton Canal. Kerfoot pointed out that this new building will facilitate further research and education about pressing issues in the Upper Great Lakes issues, such as the effects of Global Climate Change on Lake Superior water levels, the development of realistic coastal models, impacts of non-indigenous nuisance species; and restoration of native fish stocks, among several other issues.

![Keynote Speaker](image)


The Graduate Student Council People’s Choice First Place Poster award of $150 was announced by Anna Pereira, Academic Chair of the GSC. It went to four Physics Engineering graduate students for a poster entitled, “Miniature Energy Sources: Biofuel Cells Based on Carbon Nanotube Arrays,” designed by **Archana Pandey**, **Abhishek Prasad**, **Jason Moscatello**, and **Abhay P. Singh**. This poster describes a concept by which excess calories in a human can be converted into usable energy to power medical sensors made from carbon nanotubes implanted in the body to make actual adjustments to body chemistry. Their advisor is Associate Professor **Yoke Khin Yap**.

![Graduate Students](image)

This year, there was a surprise tie for First Place, so SFI matched the GSC’s $150 for the other First Place finishers: **Craig Gossen**, **Stefan Marek** (MEEM), **Ashley Thode** (Civil Eng.), **Kim Landick**, **Krissy Guzak**, and **Cara Hanson** (Environmental Eng.). Their poster, entitled "Improving Airflow in Ventilated Improved Pit Toilets," describes a low cost air flow toilet made from minimal materials. This poster is a preliminary design that will be part of a display in April on the Washington DC Mall as part of an EPA P3: People, Planet, and Prosperity competition. The students’ advisors are **Dr. Kurt Paterson**, **Dr. David Watkins** (CEE), and **Dr. Donna Michalek** (MEEM).

The 3rd Place award went to **Andrew Kozich** for his poster entitled “Sustaining Michigan’s Wetlands: Mitigation, Conservation Easements, and No Net Loss.”

[Image 405x518 to 539x619]

Andrew Kozich, PhD student SFRES

SFI’s Operations Manager, **Richard Donovan**, awarded the Inaugural Operations Manager Award of $200 to the entire ETEC Enterprise Team whose members are: **Ashley Brown**, **Dianna Cacko**, **Stephen Chartier**, **Patrick Green**, **Jordan Huffman**, **Eric Kinonen**, **Markus Manderfield**, **Andrew Manty**, **Michael D. Powers**, and **Tyler Sutkowi**. The ETEC teams submitted three posters: 1.) “Lake Superior & Ishpeming Railroad,” which describes a more efficient
Tour’s Managing Director, Melissa Davis, is on the SFI staff and also received a Scholar of SFI distinction at the banquet. ETEC, a Michigan Tech Enterprise Program, stands for Efficiency through Engineering and Construction Enterprise (ETEC). Their advisor is Lynn Artman. Dr. Donovan chose it for his inaugural award not only for the three posters in the show but, as he said, “I just like the whole idea of this enterprise!”

In keeping with the theme of sustainability, Chef Eric Karvonen prepared the dinner using fresh roasted trout from Lake Superior, vegetables from Chip Ransom’s organic farm on the Houghton Canal Rd, grass-fed bison from Northern Wisconsin, and wild blueberries from Gay, Michigan. More pictures of the event are available at the following URLs:

2. SFI Speaker Series Presents Dan Davison Tuesday Nov 3 at 2:00 Rekhi Hall GO6
The Millennium Model Research Foundation: A Socio-Economic Model For A Sustainable Future

The slogan of the Millennium Model Research Foundation is “Building 1000 Self-Sustainable Communities on Principles that last for 1000 Years”. The presentation will quickly lead the audience through the need to embrace philosophies of The Moral Explosion, which describes the philosophy for sustaining the human community, and then describes the practical enterprise model to support the community. Together, these will form the social-economic base for 1000 Self-Sustainable Communities as given in the business description of Double Helix Management Services Ltd. The talk will describe the immediate implementation of 10 Self-Sustainable Communities and how those communities are expected to develop 10 more with an additional round of development through the leadership and education arm of The Millennium Model Research Foundation.

Dan Davison has held international corporate executive and management positions in the industries of energy; food, farm and facilities; transportation and communications; currency and banking; health and wellness; education and training. He has most recently started a new company called Double Helix Management Systems Ltd. as the financial arm of his non-profit foundation called “The Millennium Model Research Foundation”. The monetization and capitalization are based on gold bullion and 6 infra-structure industries reflecting absolute values for everyone involved with global impact, and will be launched in late 2009. The foundation and investment management firm were formed as part of a unique monetization and capitalization system devised by Davison which are themselves designed to support the implementation and construction of 1000 self-sustainable communities. The communities are to be established on different continents and each community will accommodate at least 10,000 persons. See sfi.mtu.edu

3. Give to Sustainable Futures through the Campus Campaign
Campus Campaign is underway and this year’s program offers a new twist. Donors can now give to SFI through the MTU Fund! Employees are being given the opportunity to thank someone who has had an impact on their Michigan Tech work experience by donating in tribute to somebody and/or to some special activity such as sustainability at Michigan Tech. When requesting a gift to SFI the office of development at Mich Tech will send SFI a note alerting them to this tribute in its honor. In addition, the tributes will appear on the Campus Campaign webpage for others to read. Money donated to SFI will be earmarked for special activities that are not generally covered by the government or industry grants. SFI has designated that the funds go for such projects as the SFI Speaker Series, undergraduate and graduate student scholarships, awards for student posters depicting sustainability, student recognitions, student travel and registration fees to sustainability conferences, webinar registrations, webpage design/updates, student support workers as well as various educational and social exchanges and research for sustainability projects. Contributions will also allow SFI to sponsor or co-sponsor campus sustainability events. You can donate to SFI in two ways: Send a check to the Michigan Tech Fund and write SFI on the memo line. (You can include the Fund # 18131) Or, you give online at the Michigan Tech Fund’s webpage at https://www.banweb.mtu.edu/mtu/mtf/gift/give.xsql. Please consider giving to SFI and please pass the word to other alumni and friends of sustainability.

3. Tech MBA Honored Again by the Aspen Institute
The MBA program of the School of Business and Economics has been honored by the Aspen Institute’s 2009-10 edition of, "Beyond Grey Pinstripes," a biennial survey and alternative ranking of how well full-time MBA programs are preparing students for the environmental, social, and ethical complexities of modern-day business. The SBE is rated 58 on a list of the top 100 business schools and has "demonstrated significant leadership in integrating social, environmental and ethical issues into its MBA program," according to the Aspen Institute. "The Tech MBA students are very concerned about a sustainable future," said Ruth Archer, director of graduate programs. 
http://www.admin.mtu.edu/urel/ttoday/previous.php?issue=20091026

4. World Usability Day Comes to Michigan Tech November 12th The theme is “Designing for a sustainable world.” Call for Posters—If you have a poster that depicts a design for any article or concept that is both useful and sustainable, please contact Karla Saari Kitalong at kitalong [AT] mtu [DOT] edu (906-487-3454) by November 3rd.

SUSTAINABILITY NEWS
1. WWJ, ESD, UM-Dearborn offer a look at Michigan’s “Blue Economy,” Tuesday, Nov. 10 from 7:15 to 9:30 a.m.

Michigan is sitting on a blue gold mine, and it’s time we did something about it. That’s the impetus for a WWJ Newsradio 950 Business Breakfast, "Blue Economy: Turning Michigan’s Fresh Water Into Renewed Prosperity," scheduled for Tuesday, Nov. 10 from 7:15 to 9:30 a.m. at the University of Michigan-Dearborn's Fairlane Center, 19000 Hubbard Drive. The event is sponsored by WWJ Newsradio 950, The Engineering Society Of Detroit and UM-Dearborn. Approximately 20 percent of the world’s surface fresh water is present within the Great Lakes. Michigan’s water can and will play a significant role in our state’s economic recovery. http://www.wwj.com/WWJ--ESD--UM-Dearborn-Offer-New-Look-At--Blue-Econ/5516420

2. Biofuels Displacing Food Crops May Have Bigger Carbon Impact Than Thought

ScienceDaily (Oct. 25, 2009) — A report examining the impact of a global biofuels program on greenhouse gas emissions during the 21st century has found that carbon loss stemming from the displacement of food crops and
pastures for biofuels crops may be twice as much as the CO2 emissions from land dedicated to biofuels production. [http://www.sciencedaily.com/releases/2009/10/091022141117.htm](http://www.sciencedaily.com/releases/2009/10/091022141117.htm)

**SEMINARS----TODAY!**

1. **Using National Hydrologic Data Set in a GIS Based Model to Delineate Riparian Zones: An Intelligent Approach**
   Monday, October 26, 2009 Ann Maclean, SFRES M&M building, U113  
   Website: [http://forest.mtu.edu/faculty/maclean/](http://forest.mtu.edu/faculty/maclean/)

2. **Achieving Sustainable Urban Watersheds through Incentive-Based, Decentralized Stormwater Mitigation**
   Audrey L. Mayer, Social Sciences Monday, October 26, 2009 Dow 642  
   Environmental Engineering Seminar Series

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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, 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. **National Forest Foundation (NFF) Matching Awards Program (MAP)**
   
   **Amount** Note--Federal funds and in-kind contributions should be documented to show leverage for a project, but cannot be matched by MAP funds. Past awards range from $500 to over $100,000, with a mean of $30,000 and a median of $25,000.  
   **Deadline** Note: The Pre-Proposal submission dates for the 2010 Matching Awards Program are as follows: Round 1: 11:59 pm (MST) on December 8, 2009 Round 2: 11:59 pm (MDT) on June 4, 2010
   
   The Matching Awards Program (MAP) provides challenge grants (one-to-one matching grants) for organizations to implement a broad range of action-oriented, on-the-ground conservation, restoration, and citizen-based monitoring projects that benefit National Forests and Grasslands. Current priorities center around recreation, wildlife habitat enhancement, watershed health, and community forestry. **Eligibility** Applications will be considered from nongovernmental, nonprofit 501(c)(3) organizations, including community-based and national organizations, Native American tribes, and universities working on, or adjacent to, National Forests and Grasslands in an effort to implement on-the-ground conservation, restoration, and citizen-based monitoring projects.

   [http://fundingopps.cos.com/cgi-bin/fo2/getRec?id=63005](http://fundingopps.cos.com/cgi-bin/fo2/getRec?id=63005)
   [http://nationalforests.org/conserve/grantprograms/ontheground/map](http://nationalforests.org/conserve/grantprograms/ontheground/map)

2. **Dynamics of Coupled Natural and Human Systems (CNH)**
   
   **Full Proposal Deadline Date: November 17, 2009**
   
   **SYNOPSIS:** The Dynamics of Coupled Natural and Human Systems competition promotes quantitative, interdisciplinary analyses of relevant human and natural system processes and complex interactions among human and natural systems at diverse scales.

   **EDUCATIONAL OPPORTUNITY:** This program provides educational opportunities for Undergraduate Students, Graduate Students, K-12 Educators. Individuals interested in applying for funding should see the program guidelines.


3. **Research Experiences for Teachers (RET) in Engineering**
   
   **Full Proposal Deadline Date: November 16, 2009**
The Directorate for Engineering (ENG), Research Experiences for Teachers (RET) in Engineering program supports the active involvement of K-12 teachers and community college faculty in engineering research in order to bring knowledge of engineering and technological innovation into their classrooms. The goal is to help build long-term collaborative partnerships between K-12 science, technology, engineering, and mathematics (STEM) teachers, community college faculty, and the NSF university research community by involving the teachers in engineering research and helping them translate their research experiences and new knowledge of engineering into classroom activities. Partnerships with inner city schools or other high need schools are especially encouraged, as is participation by underrepresented minorities, women, and persons with disabilities. This announcement features two mechanisms for support of in-service and pre-service K-12 teachers and/or community college faculty: RET supplements to ongoing ENG awards and new RET Site awards. RET supplements may be included in proposals for new or renewed NSF Directorate for Engineering (ENG) grants or as supplements to ongoing NSF ENG funded projects. RET Sites are based on independent proposals from engineering departments, schools or colleges to initiate and conduct research participation projects for a number of K-12 teachers and/or community college faculty.


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

1. Director of Sustainability, Hofstra U
Hofstra University (NY) invites applications for the position of director of campus sustainability. Reporting to the University’s vice president for facilities and operations, the director will operate across administrative and academic areas of the University. She/he will implement Hofstra’s sustainability policy mitigating the University’s environmental impact and assist University community members with integrating sustainability into all aspects of campus operations. The successful candidate is required to hold a bachelor's degree in engineering, architecture, environmental planning, or a related field. A master’s degree, at least five years of experience in sustainability or environmental technology, and past employment in higher education are preferred. Applications will be accepted until the position is filled. http://www.hofstra.edu/About/Jobs/jobs_careers_at_hofstra.cfm?jobType=Admin

2. Vice President, Sustainability & Energy Initiatives, Cuyahoga CC
Cuyahoga Community College (OH) is accepting applications for the position of Vice President of Sustainability and Energy Initiatives. The Vice President provides executive guidance and strategic direction for sustainability and energy initiatives by working through the College’s Workforce and Economic Development and Academic Affairs divisions. A master’s degree in a scientific or engineering discipline is required. The position is open until filled. http://www.higheredjobs.com/search/details.cfm?JobCode=175397608

3. Manager, Utilities, Energy and Sustainability, U West Florida
The University of West Florida invites applications for a manager of utilities, energy, and sustainability. Minimum requirements include a master’s degree in an appropriate area of specialization and two years of appropriate experience or a bachelor’s degree in an appropriate area of specialization and four years of appropriate experience. The deadline to apply is October 27, 2009. TOMORROW! http://chronicle.com/jobs/0000612835-01

4. Sustainability & Energy/Water Conservation Coord, Stanford U
Stanford University (CA) is seeking a candidate for the position of sustainability and energy/water conservation coordinator. The coordinator will be a member of the Housing Planned and Sustainability Projects (HPSP) professional staff that reports to the assistant director for HPSP. The coordinator will provide leadership and support for all sustainability and green building initiatives throughout Student Housing (SH), plan and market outreach programs to students and staff, develop and maintain sustainability indicators for SH (energy and natural resource use, waste generation and recycling volumes, number of awareness activities), provide design and project management oversight for energy and water conservation projects; develop standards and specifications for sustainable design and construction, implement advanced metering and control systems for SH facilities; and provide technical assistance to other SH groups. A bachelor’s degree in engineering, architecture, environmental science, or a related field is required, as is a minimum of five years of work experience in the fields of sustainability and/or education. http://www.higheredjobs.com/search/details.cfm?JobCode=175396676
5. **Chaired Professorship, Energy Sources & Systems, Rensselaer Polytechnic Institute**
Rensselaer Polytechnic Institute (NY) is accepting applications for a tenure-track or senior faculty position in the area of energy sources and systems. To be considered at the tenure track level, candidates should be able to exhibit, through their accomplishments, promise of future distinction in scholarship and education. Candidates will be expected to conduct research and teach in one or more of the following areas: energy systems and smart grids, renewable and sustainable energies, and energy conversion. The position is open until filled.

6. **Faculty/Chair, Env'l Studies & Biology, Warren Wilson College**
Warren Wilson College (NC) seeks conservation biologists to fill one or possibly two faculty positions in the departments of Environmental Studies and Biology. Applications will be accepted either at the senior level from those who would act as chair of the Environmental Studies Department or at more junior faculty levels. Responsibilities will include teaching four or five courses per year (fewer if department chair), undergraduate research advising for 3-5 students per year, and academic advising within the conservation biology concentration. The candidates should be competent in and willing to teach courses such as Conservation and Wildlife Biology, Ecology, Introduction to Environmental Studies, General Biology, Research Design, First Year Seminar, and Study Abroad, as well as upper division courses in the candidate’s specialty. Experience in sustainability education is desirable. For those applying for Department Chair, a record of equivalent administrative leadership and a commitment to a collaborative leadership style is expected. The review of applications will begin November 20, 2009. http://chronicle.com/jobs/0000612975-01

7. **Assistant Professor, Geography & Env'l Studies, U Hawai'i Hilo**
The University of Hawai'i, Hilo is seeking applicants for a tenure-track position of assistant professor of geography and environmental studies. This position will teach undergraduate/graduate courses in human geography and environmental studies/science with a focus on geographies of nature and society, sustainability studies, and development. The position will also engage in scholarly research and grant procurement, advise students, and participate in departmental governance and related university and community service. A Ph.D. in Geography or a related field is required, as is teaching experience in the relevant areas and a record of research in geographies of nature and society. The application deadline is December 31, 2009.

8. **Assistant/Associate Prof, Env'l Studies & Sciences, Ithaca College**
The Ithaca College (NY) Department of Environmental Studies and Sciences invites applications for a full-time, tenure-eligible assistant or associate professor position to teach a required physical and cultural geography course for majors, an upper level course in Topics in Geography and Planning, and other geography courses to meet the needs of the department and College beginning August 16, 2010. Ithaca seeks a faculty colleague who has a strong commitment to teaching, the ability to involve undergraduate students in research projects, and the capability to focus on geography as a discipline within the larger context of the environment. Ideal candidates will be able to weave together cultural, political, and ecological systems as they relate to changing geography, and demography. Appropriate research areas and training include (but are not limited to) cultural geography, urban and regional planning, and spatial analysis. International and/or cross-cultural perspectives are desirable. Applications from candidates who bridge two disciplines are particularly welcome. Review of applications will begin November 15, 2009 and will continue until the position is filled.
https://apply.icjobs.org/applicants/jsp/shared/framesetFrameset.jsp?time=1256569189535

NEW RESOURCES
1. **Campus Sustainability Discussion Forums**
AASHE has launched a suite of campus sustainability discussion forums covering topics in education and research; campus operations; and campus planning, engagement, and administration. Anyone with an interest in learning about or contributing to the growing body of knowledge on campus sustainability may participate in the forums. The aim is to provide a central place for sharing ideas and best practices and asking and answering questions.
Contributors are expected to be largely North American, but the forums are open to all. The forum topics parallel the 17 sub-categories in AASHE’s Sustainability Tracking, Assessment and Rating System (STARS), released in September (STARS v.1.0 Early Release). The 17 topics are: co-curricular education, curriculum, research, buildings, climate, dining services, energy, grounds, purchasing, transportation, water, waste, coordination and planning, diversity and affordability, human resources, investment, and public engagement. http://www.aashe.org/forums

EVENTS & CONFERENCES

1. AASHE Sustainability Across the Curriculum Leadership Workshop
January 7-8, 2010; Emory University; Atlanta, GA AASHE’s Sustainability Across the Curriculum Leadership workshops are for faculty leaders of all disciplines who wish to develop curriculum change programs around sustainability on their campuses. Through an intensive two days of presentations, exercises, discussions, reflection, and planning, participants will become familiar with the philosophy of change in higher education developed through the Ponderosa Project at Northern Arizona University and adapted at Emory in the Piedmont Project. Participants will also experience a range of workshop strategies, hear local experts, enjoy outdoor place-based activities, and dialogue with faculty from around the country as they gain help in adapting this model to their own campus. The workshop leaders, Peggy Barlett and Geoffrey Chase, are editors of Sustainability on Campus: Stories and Strategies for Change and have helped more than 250 faculty revise courses in a wide array of disciplines. Workshop tuition is $420 for AASHE members and $485 for non-members. Applications to participate are due October 30, 2009. http://www.aashe.org/profdev/curriculum.php

2. 2010 Smart & Sustainable Campus Conference CFP
March 21-23, 2009; University of Maryland, College Park
The National Association of College and University Business Officers (NACUBO) invites presentation and workshop proposals for the 2010 Smart and Sustainable Campuses Conference. Submissions may come from campus administrators, students, or members of the corporate community. At least one presenter needs to be an institutional representative. Preference will be give to presentations that focus on removing obstacles to reach sustainability on campus, including finding creative ways to finance small or large-scale projects, and strategies being employed to fulfill the obligations of the American College & University Presidents’ Climate Commitment. Broad categories for submission include: operational solutions, financing sustainability, institutionalizing sustainability, and planning and smart growth. Submissions are due October 30, 2009. http://www.nacubo.org/Events_and_Programs/Smart_and_Sustainable_Campuses_Conference/Call_for_Presentations_Overview.html

3. Webcast – Getting Started on a Carbon Action Plan
December 2, 2009; 2 – 3:30pm Eastern; Online
Academic Impressions invites participants to "Getting Started on a Carbon Action Plan." During the webcast, Dave Newport, director of the Environmental Center at University of Colorado at Boulder, will give an overview of the steps needed to create a realistic plan for carbon action. Attendees will learn how to create an accurate carbon inventory, evaluate carbon mitigation options, quickly project future emissions, and determine a carbon action plan and goals quantitatively.
http://www.academicimpressions.com/web_conferences/1209carbon.php?q=4009x274891yT

4. INTED-International Technology, Education and Development Conference March 8th to 10th

Call For Abstracts-- Deadline Submission: 1st December 09
We invite you to submit your abstracts and participate in the Annual Edition of INTED 2010, the International Technology, Education and Development Conference, that will be held in Valencia (SPAIN), on the 8th, 9th and 10th of March 2010. The objective of INTED 2010 is to share your experiences in the fields of Technology, Education, Development and International Collaboration. It is an International Forum for lecturers, researchers,
professors, engineers, educational scientists and technologists. You can present your projects in two modalities:
In person: oral and poster presentations. Virtually: if you can not attend in person.

INTED 2010 Abstracts CD and Proceedings CD, both with ISBN, will be produced with all accepted abstracts and papers submitted. We look forward to seeing you in Valencia!
http://www.iated.org/inted2010/callforabstracts.html