University of Southern California
Women in Science and Engineering Program (WiSE)
www.usc.edu/wise

Calendar: WiSE Events

2010 WiSE Distinguished Lecturer: Dr. Rita Colwell

Friday, October 22, 2010
Lecture: 2pm
Reception: 3pm
Recent winner of Stockholm Water Prize:
Chemical and Engineering News (http://pubs.acs.org)
Click here for more information about Dr. Colwell and the lecture.

Calendar: WiSE Networking Meetings

WiSE Faculty Networking Meetings
- WiSE Hosted Lunch and Welcome to New Faculty, University Club: PUB Room
  - Thursday, September 30th, 12pm
  - **RSVP by today**, Monday, Sept 27, to Amanda at amanda.urias@usc.edu
- Networking Lunches for Fall, HNB 107. Bring your own lunch; cookies, coffee, and tea provided.
  - Thursday, October 28th, 12pm
  - Thursday, December 2nd, 12pm (beginning of month due to holidays/ end of semester)

Calendar: Other Events

Einstein's Cosmic Messengers, **Visions and Voices Event**

Organized by Elena Pierpaoli, Associate Professor of Physics and Astronomy
Friday, October 22, 2010 : 8:00pm
University Park Campus, Bovard Auditorium (ADM)
Admission is free.

Music and science coalesce in *Einstein's Cosmic Messengers*, a stunning multimedia concert created by composer Andrea Centazzo and NASA physicist Michele Vallisneri. Following this magnificent journey through the universe, science writer K.C. Cole will moderate a conversation with Centazzo, Vallisneri and USC cosmology professor Elena Pierpaoli.

http://web-app.usc.edu/ws/eo2/calendar/113/event/873327

Society of Women Engineers – USC
3rd General Meeting: Meet & Mingle with Qualcomm

Wednesday, Sep 29th, 2010, 7:00-8:00pm
SAL 101
Qualcomm's summer interns from 2010 are going to give us the inside scoop on the exciting opportunities within the company, and they are our age! Come and get tips on how to secure an internship, how to distinguish yourself as a leader within a company!
For more information: http://www-scf.usc.edu/~sweusc/

USC Viterbi: Women in Engineering events
For more information: http://viterbi.usc.edu/students/undergrad/women/programs.htm

"Take a Break" with WIE & CED
October 12th, 3-5pm
Come by CED in RTH 210 to enjoy some yummy treats and relax with a quick chair massage from the Lyon's Center Massage Therapists! WIE look forward to seeing you there! No RSVP Necessary.

WIE Series
WIE will host a series of roundtable discussions for Viterbi women to come together and discuss topics of interest. We will invite guest speakers to join us and lead conversations on networking, graduate school and balancing life as a Viterbi engineer! Food will be provided.

Save the date: **October 28th**, 5-7pm in RTH 211, WIE will be presenting an Alumni Women in Industry panel. Details including featured guest speakers are coming soon! RSVP Required

Out to Innovate, LGBT Science/Technology/Engineering/Mathematics (STEM) Summit
Saturday, October 9, at the Ronald Tutor Campus Center.
The *OUT TO INNOVATE* summit presents a variety of noted lesbian, gay, bisexual, and transgender professionals who will share their insights on leadership, activism, mentoring, workplace challenges, career choices, opportunities.
For more information, see www.outtoinnovate.org, or go to the registration page, http://alumni.usc.edu/outtoinnovate.

Annual George A. Olah Lecture in Chemistry
Monday, October 18, 3:30 p.m. Refreshments; 4:00 p.m. Lecture, SGM 123
Prof. Helmut Schwarz, Technische Universität Berlin
"From Bare FeO+ to Cytochrome P-450: New Insight in the Intriguing Mechanisms of C-H Bond Oxygenation"

Center for Applied Mathematical Sciences (CAMS) Distinguished Lecture
Friday, December 3, 3:30 PM - 4:30 PM, KAP 414
Charles Fefferman, Princeton University, CAMS Distinguished Lecturer
The Muskat Problem: The problem concerns the evolution of the interfaces between two or more fluids in a porous medium. The talk presents new phenomena arising when at least three fluids are present. (Joint work with several coauthors)

MacNair Scholars Program
Application Deadline: 10/18/10 @ 5pm

The USC MacNair Scholars Program is currently accepting applications and holding information sessions for it's Undergraduate Scholars Program for USC students who are **Either** first-generation college student & low-income **Or** a member of an underrepresented ethnic group (African American, Mexican American/Chicano, Hispanic/Latina/o, Native American, Asian Pacific Islander, Native Alaskan or Native Hawaiian).

Benefits:
- Research Experience
- Graduate School Preparation
- Faculty Mentorship
- $2800 Summer Research Stipend
- $2000 Housing Scholarship
- Princeton Review GRE Prep Course
- Publishing Opportunities
- Conference Travel
- Professional Development

Requirements:
- Must be a USC Student enrolled full-time with at least sophomore or junior status
- Cumulative GPA of 3.0 or higher
- ANY MAJOR!
- U.S. Citizen or Permanent Resident status
- Motivation to obtain a doctorate degree
- Aspirations for an academic or research career

Fall 2010 Information Sessions (Pizza and Refreshments Provided!)
Tuesday, 10/5 @ GFS 329, 10:15 – 11:15 a.m.
Tuesday, 10/5 @ GFS 329, 3:15 – 4:15 p.m.
Wednesday, 10/6 @ THH 215, 5:15 – 6:20 p.m.
Monday, 10/11 @ THH 215, 3:45 – 4:45 p.m.
Visit the website for more information: http://mcnair.usc.edu/

Ford Foundation Fellowship Programs

Application Deadlines: Early November 2010

Ford Foundation Fellowship Programs are designed to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students. Stipends of $20,000 - $40,000 for predoctoral, dissertation, and postdoctoral applicants.

For additional information and applications, contact:

National Research Council of the National Academies

500 5th Street NW, K576

Washington, DC 20001

Phone: (202) 334-2872; Fax: (202) 334-3419; E-mail: infofell@nas.edu

See Web site for complete eligibility information: http://national-academies.org/fellowships

SUPERS@PENN, University of Pennsylvania School of Medicine

Applications open October 1, 2010 for Summer 2011

The program, SUPERS@PENN, is a highly competitive program designed for motivated undergraduates who are considering careers in academic medicine, with a specific emphasis on cancer research. The program is designed to run over two consecutive summers so we are most interested in juniors, who then have the option of returning as seniors for a second year of research training.

More information about SUPERS@PENN can be viewed at www.med.upenn.edu/supers .

Glamour **Magazine Top 10 College Women Competition**

Deadline: December 1, 2010

Looking for dynamic young women with leadership experience, academic excellence and inspiring goals. Winners receive a $5,000 cash prize, recognition in *Glamour* and a trip to New York City for an awards luncheon.

Any woman who is currently a full-time junior at an accredited college or university in the United States or Canada for the 2010—2011 academic year is eligible to enter.

To apply/ read about the accomplished former winners, go to: Glamour Magazine Top 10 College Women of 2010.

Note from Professor Maja J Mataric' of Viterbi re: donations to Childrens Hospital LA

WiSE women:

I would like to encourage you to consider donating baby and child items to Childrens Hospital LA. CHLA is affiliated with USC and some of us at VSoE have research programs there. The hospital has superb pediatric services, and serves some of the most disadvantaged and most severely disabled children. The people there are just wonderful, so it's a lot more satisfying to give them baby & kid stuff then to drop it off at the usual donation center where it goes into a giant pile with a dubious future. Any donation to CHLA is tax-deductible, they will give you a tax number. I know they need toys (for occupational therapy and physical therapy for example), but also other stuff. You can just give their main number a call for more info or work through somebody you know there. [I've been stockpiling stuff for a large donation in mid October. I can coordinate something if there is interest.

Maja J Mataric'

If you are interested in donating, please contact mataric@usc.edu.

NEWS at USC

To see the USC WiSE News archives, please visit www.usc.edu/programs/wise/news/

USC Center for Applied Mathematical Sciences Turns 20

USC College of Letters, Arts & Sciences News, August 25, 2010

This year marks the 20th anniversary of the USC Center for Applied Mathematical Sciences (CAMS), a research unit housed in USC College's Department of Mathematics. Susan Friedlander, professor of mathematics and CAMS' fourth director, planned a week of celebratory activities Sept 20-24.
Click here for the complete story.

...NEWS at USC

Center for Dark Energy Biosphere Investigations (C-DEBI)
Check out the C-DEBI September newsletter:
http://www.darkenergybiosphere.org/resources/docs/C-DEBInews2010Sep.pdf

Viterbi Lab Releases Smartphone App that Measures Particulate Air Pollution
USC News, September 20, 2010

University of Southern California computer scientists Professor Gaurav Sukhatme, left, and postdoc Sameera Poduri, right, have found a way to combine smartphone resources with a novel application that allows the phones' users to help monitor air quality. The application, provisionally titled "Visibility," is available for free download at http://robotics.usc.edu/~mobilesensing/Projects/AirVisibilityMonitoring Click here for the complete story.

Congratulations to Suvimol "Ming" Sangkatumvong!
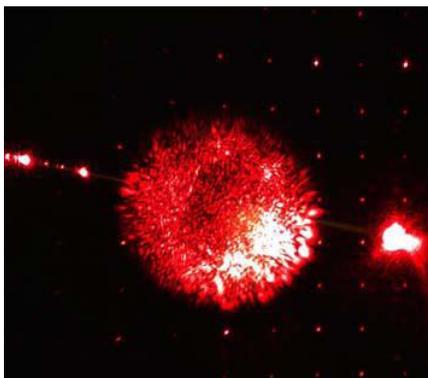*USC Department of Biomedical Engineering News*, September 8, 2010

Suvimol "Ming" Sangkatumvong was recently selected as an Open Finalist in the Student Paper Competition at the 2010 Engineering in Medicine and Biology Conference, August 31 – September 4, 2010 (Buenos Aires, Argentina). The competition was co-sponsored by EMBS and the National Science Foundation. Ming presented her paper entitled: "Time-Varying Analysis of Autonomic Control in Response to Spontaneous Sighs in Sickle Cell Anemia."

Click here for the complete story

The Optical Society – Andrea Armani wins an honorable mention
USC Mork Family Department of Chemical Engineering and Materials Science News, September 23, 2010

Professor Andrea Armani won an honorable mention in the 2010 After Image photo contest of The Optical Society.

A 633-nm light coupled into a microsphere resonant cavity. Due to surface defects on the cavity, the light is scattering out of the cavity. "If I would not have read the title, I would have thought it was a photograph of a firework in the sky," said judge Yanina Shevchenko. "Besides having great visual appeal, it also has considerable scientific relevance."

To see other winners, please click here .

Back to School Means Back to ISI for Computer Security Students: Viterbi School's Information Sciences Institute's testbed used by ten schools' degree programs
USC Viterbi School of Engineering News, September 21, 2010

Research Assistant Professor and ISI Computer Scientist Jelena Mirkovic helps provide a sealed-off mini-Internet where defenders-in-training can safely go up against malignant viruses, Trojan horses and malware.

Click here for the complete story.

...News & Articles of Interest

...NEWS at USC

Viterbi Alum Honored for her Student Volunteer Work:
Project Books and Blankies has donated over 28,000 books and raised over $130,000.
USC Viterbi School of Engineering News, September 22, 2010

Since she was 12 years old, Robyn Strumpf has been helping children learn to read. Now, the Jenzabar Foundation has selected her to receive a Student Leadership Grant for her work at USC with the nonprofit organization, Project Books and Blankies. Last May, Strumpf received an M.S. degree in engineering management from USC and graduated a year prior to that as a Renaissance Scholar with a B.S. in mechanical engineering and a B.A. in political science.

Click here for the complete story.

Other News & Articles of Interest

Building a Better Pipeline
Huffington Post, September 13, 2010

We pride ourselves on being a nation of diversity. But when it comes to diversifying our workforce in high-tech fields of tomorrow, well, let's just say we still have a lot of work to do. Consequently, as we attempt to motivate more young students into the areas of science, technology, engineering and math (STEM), it is paramount that we also increase our efforts to include more women and underrepresented minorities in these fields.
Click here for the complete story.

Women Lead in Doctorates
Inside Higher Ed, September 14, 2010

With female enrollments growing at all levels of higher education, doctoral degrees have been one area where men have continued to dominate. No more. New data being released today show that in 2008-9, for the first time ever, women earned a majority of the doctoral degrees awarded in the United States.
Click here for the complete story.

President Obama to Announce Major Expansion of "Educate to Innovate" Campaign to Improve Science, Technology, Engineering and Math (STEM) Education
The White House; Office of the Press Secretary, September 16, 2010

Today at the White House, as part of his "Educate to Innovate" campaign to raise American students to the top of the pack in science and math achievement over the next decade, President Obama will announce the launch of *Change the Equation*, a CEO-led effort to dramatically improve education in science, technology, engineering, and math (STEM).
Click here for the Press Release.

Six Ways to Keep Women in Science
ScienceInsider, Science AAAS, September 24, 2010

"First the good news: More women are getting Ph.D.s than men, capping a decades-long march toward parity. And it's not just in the humanities and social sciences. They also outnumber their male colleagues in the biological and health sciences. But the bad news is that they're less likely to enter and remain in scientific careers. Beyond the doctoral level, the ratio of women to men starts to dip below one."
Click here for the complete story.