



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

WiSE Program
Upcoming Deadlines

To see all the USC WiSE Grant Programs, including ongoing grants without specific deadlines, please visit:
<http://www.usc.edu/programs/wise/programs/>

Spring 2010 Undergraduate Research Grants

College Deadline: Tuesday, January 18, 2011

Fellowship Awards for Spring offer \$2,500 (\$2,000 for the student and \$500 for advisor support) and are intended to familiarize exceptional undergraduate students in the sciences, math and engineering with laboratory research and link them with a mentor early on.

To apply and get more information, please visit the WiSE website: [Undergraduate Research Grants](#).

WiSE Support for Facilitating Diversity in Faculty Searches

Deadline: Tuesday, January 18, 2011

The WiSE Program provides competitively awarded support to WiSE-eligible departments at USC that propose and implement creative ideas for "casting the net widely," thus increasing the representation of women in science and engineering faculty searches.

Please visit our website for more information: [Facilitating Diversity in Faculty Searches](#)

WiSE Major Support for Current Faculty

Deadline: Thursday, January 27, 2011

This competitive program offers awards of up to \$25,000 and is aimed at offsetting subtle biases, barriers, and career interruptions that have been shown to hinder the advancement of women faculty in science and engineering at research universities.

Please visit our website for more information: [Major Support for Current Faculty](#)

Calendar: WiSE
Networking Meetings

WiSE Faculty Networking Meetings

CHANGE IN DATE: Last Networking Lunch for Fall, meeting in HNB 107.

- **Thursday, December 9th, 12pm** (this will be the only meeting for Nov & Dec due to holidays/ end of semester)
- Bring your own lunch; cookies, coffee, and tea provided.

First Meeting of the New Year will be back to the normal schedule of the last Thursday of the month:

- Thursday, January 27, 2011, 12pm

Calendar: Other Events

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)

See the [CAMS](#) webpage for more details.

...Calendar: Other
Events

AWIS LAVC Events

- Career development seminar: Career Opportunities in Clinical Research
 - Presented by Dr. Rebecca Anderson; Amgen Conference Room, Thousand Oaks
 - **POSTPONED to January, 2011**
 - Holiday Party – Please save the date for our annual holiday party! Friday, December 3rd 7-10pm
- For more information: www.awislavc.org

6th Annual Undergraduate Women in Physics Conference

January 15-16, 2011 at USC

- Talks on various topics of physics
- Discussion groups on women in physics
- Learn about graduate studies and careers
- Meet physics students from several universities
- **Registration and meals Free!**
- Travel and lodging funds available

Registration information can be found at http://physics.usc.edu/~wiphys/conference11/main/Home_1.html

Opportunities

C-DEBI Announcement from Kai-Uwe Hinrichs and Fumio Inagaki

Upcoming deep biosphere research opportunity of the IODP Expedition 337.

The call for shipboard scientists is now open on the IODP website

Deadline is November 30.

XCall for shipboard scientists of IODP Expedition 337: Deep coalbed biosphere off Shimokita

Among the least characterized Earth systems that can be addressed by scientific ocean drilling are deeply buried hydrocarbon reservoirs in sediments along continental margins. In particular, the role of microbial activities for the formation and fate of these reservoirs remains poorly understood. We would like to advertise Expedition 337 of the Integrated Ocean Drilling Program (IODP), starting on 15th March, 2011. The objectives of Expedition 337 are focused on microbial and biogeochemical processes related to a deeply buried Eocene lignite-coalbed at ~2,000 mbsf as well as the paleoenvironmental history recorded at this deep site. Using the riser-drilling system on *DV Chikyu*, we will perform drilling down to 2,200 mbsf. The cored materials will include a regional Oligocene unconformity of terrestrial-marine sedimentary interface and the underlying Eocene lignite-sand layers. The wireline logging and in-situ sampling of deep formation fluids in lignite-sand layers are also planned. The expedition will unravel deep seafloor life and the biosphere in a habitat that has never been targeted by previous scientific ocean drilling. Spot cores at selected intervals, drill cuttings, and mud gas samples will be collected for scientific analyses, including onboard carbon isotopic analysis and radiotracer incubation experiments. After the completion of the riser hole, a separate hole will be drilled for high-pressure core sampling and the PCATS core transfer system under *in-situ* pressure. PCS will be attempted at selected intervals between 200-300 mbsf, retrieving possible methane hydrate-bearing sediments at the site. The call for application to sail is now available on the IODP website (www.iodp.org), and the application deadline is November 30. We hope to trigger the interest of potential candidates with expertise in the areas outlined in the call and look forward to your application.

Fumio Inagaki (JAMSTEC) and Kai-Uwe Hinrichs (University of Bremen)

-Co-chief Scientists of the IODP Expedition 337

Yusuke Kubo (CDEX, JAMSTEC)

-Expedition Project Manager

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](http://www.glamourmagazine.com/top10collegewomen).

L'Oreal USA Announces Call for Applications for 2011 L'Oreal For Women in Science Fellowship Program for Postdoctoral Researchers

Online Application Deadline: December 13, 2010

Now entering its eighth year, this national program annually recognizes, rewards and provides support to five women postdoctoral researchers in the U.S. who are pursuing careers in the life and physical/material sciences, as well as mathematics, engineering and computer science. L'Oréal USA awards each recipient up to \$60,000 to apply toward their postdoctoral research.

The five beneficiaries of the 2011 **L'Oréal USA Fellowships For Women in Science** program will be invited to attend a week of events that include an awards ceremony, professional development workshops, media training and networking opportunities. In 2011, these workshops, which are facilitated by the American Association for the Advancement of Science (AAAS), will encompass job search techniques, interviewing skills, budget development for grant requests and strategies for peer-reviewed publication.

Candidates interested in applying may visit the **L'Oréal USA Fellowships For Women in Science** website at <http://www.lorealusa.com/forwomeninscience> to obtain more information about program eligibility and requirements. Applications must be submitted online by December 13, 2010 and transcripts must be postmarked no later than December 15, 2010.

THIRD INTERNATIONAL CONFERENCE ON SCIENCE IN SOCIETY

August 5-7, 2011, The Catholic University of America, Washington D.C., USA

Call for Papers Deadline: December 21, 2010

This conference addresses the social impacts, values, pedagogies, politics and economics of science. It is an inclusive forum that welcomes a breadth of perspectives on science from practitioners, teachers and researchers representing a wide range of academic disciplines. The Science in Society Conference is held annually, and was inaugurated in 2009 at Cambridge University, Cambridge, UK, and was held at Universidad Carlos III de Madrid in 2010. 2011 will be at The Catholic University of America in Washington D.C. In 2012 the conference will be held at the University of California, Berkeley from 15-17 November 2012.

In addition to Plenary Presentations from leading speakers in the field, the Science in Society Conference includes parallel presentations by practitioners, teachers and researchers. We invite you to respond to the conference Call-for-Papers. Presenters submit their written papers for publication in the peer refereed "International Journal of Science in Society". If you are unable to attend the conference in person, virtual registrations are also available which allow you to submit a paper for refereeing and possible publication in the journal as well as the option of uploading a video presentation to our YouTube channel.

The deadline for the next round in the call for papers (a title and short abstract) is 21 December 2010. Future deadlines will be announced on the conference website after this date. Proposals are reviewed within two weeks of submission. Full details of the conference, including an online proposal submission form, may be found at the conference website: <http://science-society.com/conference-2011/>.

Rosalind Franklin Fellowship (Tenure-Track Positions)

Faculty of Mathematics and Natural Sciences, University of Groningen, The Netherlands

Application Deadline January 7, 2011

To promote the participation of women in Natural Sciences and Liberal Arts the University of Groningen offers a prestigious fellowship program named after Rosalind Franklin, whose X-ray studies of DNA were crucial to solving its structure.

Four fellowships are available in the Faculty of Mathematics and Natural Sciences. The fellowships will be awarded to outstanding women scientists from any of the disciplines mathematics, physics, astronomy, chemistry, biology, pharmacy, environmental studies, computer science, artificial intelligence and industrial engineering. Presently, 14 Rosalind Franklin fellows are working at the Faculty.

We are looking for ambitious, creative women who aim for a successful independent career towards full professorship in a European top research university. Successful candidates will be expected to establish an independent, externally funded research program in collaboration with colleagues at our university and elsewhere. They will also be expected to participate in and contribute to the development of the teaching program of the Faculty. Rosalind Franklin Fellowships (RFF) are funded with a generous startup package, including funds for a PhD position. PhD and postdoctoral experience required.

For further information and requirements, visit the website at: <http://www.rug.nl/fwn/onderzoek/rff/index>.

Cornell University 2011 LSAMP Summer Undergraduate Research Program accepting applications
Program Dates: June 5 - Aug. 13, 2011

Application deadline: March 1, 2011

CU LSAMP-R was developed to aid in the retention of traditionally underrepresented minority groups in the sciences, technology, engineering and mathematics (STEM). It is an all expense paid summer research opportunity that provides undergraduate participants with the opportunity to work with distinguished faculty and staff as well as network with others in their field of interest through weekly luncheons.

Undergraduate students, interested in gaining a deeper understanding in an engineering-related field, have the opportunity to conduct and present research over a ten-week duration under the auspices of a Cornell Engineering faculty research mentor. Through this one-on-one partnership, participants will gain theoretical knowledge and practical training in academic research and scientific experimentation.

CU LSAMP-R offers participants:

- Research stipend of \$3,400
- Round-trip travel stipend up to \$300 for students living outside of Ithaca, NY
- Double room in a residential hall
- Campus bus pass or a campus parking pass
- Access to state-of-the-art laboratories, libraries, computer/study lounges, etc.

Please visit www.engineering.cornell.edu/lsamp for more information and to apply. **Inquiries:** Jami P. Joyner, Diversity Programs, Cornell University, College of Engineering, 607.254.5202, Jami.Joyner@cornell.edu.

“Spark” Seeks USC Volunteers to Mentor 7th & 8th Graders

Spark is a non-profit that places middle school kids in apprenticeships with professionals from a wide range of fields (www.sparkprogram.org). The organization has had a great track record with youth in the Bay area and they recently expanded to southern California.

Spark is currently looking for volunteers in the engineering and computer science fields to spend two hours per week this spring (March through June) with a 7th or 8th grader. The students would come to your office or workplace once a week and learn about what it's like to be a professor, a computer programmer, a robotics engineer... or you can fill-in-the-blank here! USC students and alums would make great potential apprentice teachers. This semester we have apprenticeships with a professor in the USC Math Department as well as with a professor in the School of Social Work, and we hope to expand our partnership with USC students, professors, and alums! We are happy to come to your office and make a presentation to introduce Spark and provide you with more information about our program.

If you -- and/or your students and colleagues -- would be interested in contributing please contact Ben Allen at 310-346-9826, ballen@sparkprogram.org or Jahan Boulden at 310-291-3900, nboulden@sparkprogram.org.

NSF grant sponsors US participants for the Women’s International Research Engineering Summit (WIRES2) in Orlando, Florida, March 31-April 2, 2011

The upcoming WIRES2 (www.wiresnetwork.org) summit will focus on three research areas: engineering sustainable systems to deliver energy, clean water or health care. The *WIRES* summits are international summits for women who are interested in pursuing international collaborative researching opportunities. The main objective of these summits is to enable meaningful and sustainable research exchanges between female engineers from around the world while identifying issues faced by females pursuing careers in engineering that could benefit from a global strategy. The summit will be hosted by University of Central Florida in Orlando, Florida. Because of the funding from the National Science Foundation and corporate sponsors, there is no conference fee and there are travel grants available for US female participants. If you are interested in attending the summit or want more details, apply at our web site: www.wiresnetwork.org (click on the “Apply Now” button).

Some of the goals of WIRES2 are to:

- Provide an opportunity to create personal, sustainable relationships among female engineers that will lead to collaborative research efforts.
- Identify common issues and provide a clear, visible pathway for females to pursue international collaborations.
- Identify methods of securing funding for international collaborations from federal agencies, international sources, the private sector, foundations, etc.
- Generate a database of female faculty who are interested in conducting international research.

Mary Lynn Realf marylynn.realf@ptfe.gatech.edu and Pamela McCauley-Bush

ASEE Call for Award Nominations

ASEE is currently seeking nominations for National and Society awards that will be presented at the ASEE Annual Conference & Exposition Awards Banquet in Vancouver, BC, Canada in June 2011. Self nominations are also welcomed for many awards. One award particular to WiSE:

DuPont Minorities in Engineering Award

The DuPont Minorities in Engineering Award is intended to recognize the importance of student diversity by ethnicity and gender in science, engineering and technology. The award is conferred for outstanding achievements by an engineering or engineering technology educator in increasing student diversity within engineering and engineering technology programs. Further, the award recognizes engineering or engineering technology educators who, as part of their educational activity, either assume or are charged with the responsibility for motivating underrepresented students to enter and continue in engineering or engineering technology curricula at the college or university level, graduate or undergraduate. Candidates must demonstrate leadership in the conception, organization and operation of pre-college and college activities designed to increase participation of underrepresented students in engineering or engineering technology. This should be evidenced by increases in enrollment and graduation rates of underrepresented students. All engineering educators on the faculties of U.S. engineering or engineering technology colleges are eligible. **The Award:** The award is endowed by DuPont and consists of a \$1,500 honorarium, a certificate and a grant of \$500 for travel expenses to the ASEE Annual Conference.

For the 2011 awards, only hardcopy nominations will be accepted. For that reason, electronic award and Fellow Member nomination forms will not be available on our web site. A copy of the forms for hardcopy nominations can be downloaded from our web site at <http://www.asee.org/member-resources/awards/guidelines/awards-nomination-guidelines> or you may contact us to request them.

A list of awards that are offered, including nomination guidelines, are also available at <http://www.asee.org/member-resources/awards>. Consider nominating one or more deserving colleagues for an award.

Institute for Broadening Participation

Grad and Undergrad Programs funded by NSF and NASA

A variety of internships, fellowships, and scholarships nationwide in a wide range of STEM and related disciplines.

- **For Undergraduates:**

Paid Summer 2011 Undergrad Research Placements:

Over 400 programs - REU and Other Summer Research Opportunities for Undergrads

<http://www.pathwaystoscience.org/Summerresearch.asp>

- **For Financial Support in Graduate School Opportunities:**

Bridges, GK-12, IGERT and NSF Grad Research Fellowship programs provide generous stipend and tuition support for students through the National Science Foundation:

<http://www.pathwaystoscience.org/Grad.asp>

- **For Postdoc Opportunities:**

http://www.pathwaystoscience.org/Postdocs_portal.asp

- **For NASA-supported internships, fellowships and scholarships:**

<http://intern.nasa.gov/>

NEWS at USC

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

Professor Maja Matarić named IEEE Fellow

Each year, following a rigorous evaluation procedure, the IEEE Fellow Committee recommends a select group of



recipients for one of the Association's most prestigious honors, elevation to IEEE Fellow. Recognizing the achievements of its members is an important part of the mission of the IEEE. The IEEE Board of Directors, at its November 2010 meeting, elevated Maja Matarić, Professor of Computer Science, Neuroscience, and Pediatrics at USC, to IEEE Fellow, effective 1 January 2011, for contributions to robot coordination and learning in human-robot systems.

Congratulations, Maja!

...NEWS at USC

Meghan Miller nominated as 2010-11 EarthScope Speaker

EarthScope is a National Science Foundation program to explore the structure and evolution of the North American continent and understand the processes that cause earthquakes and volcanic eruptions. Speakers are selected based on their outstanding research accomplishments involving EarthScope as well as their abilities to engage a variety of audiences. Meghan Miller, Assistant Professor of Earth Sciences, will present her lecture, "From Structure to Dynamics: New Insights into Continental Dynamics from the EarthScope USArray Seismic Observatory," in Spring 2011 at James Madison University in Virginia.



For more information, visit: <http://www.earthscope.org/speakers>.

CNN's 'Edge of Discovery' Features Teaching Robots from the Viterbi School

VSoE News, November 12, 2010



Maja Matarić discusses the growing use of kid-friendly 'bots to interest and motivate young students.

[Click here to see the CNN video at Viterbi News.](#)

USC Viterbi and Mexico Reach Pact on Ph.D. Fellowships

Viterbi School of Engineering WiSE Committee member, Professor Francisco Valero, to coordinate the scholarships for students from his native Mexico

USC News, November 18, 2010



"Graduate students from Mexico will attend the USC Viterbi School of Engineering with funding from their country's National Council of Science and Technology. A recently signed agreement between the partners will provide stipends and partial tuition support for the first three years of Ph.D. studies at USC for up to 10 students at a time."

[Click here for the complete story.](#)

Speed Heals

USC News, November 19, 2010

"Both the rate and direction of axon growth in the spinal cord can be controlled, according to new research by USC College professor Samantha Butler and her collaborators. The study by Butler; lead researcher Keith Phan and



graduate students Virginia Hazen and Michele Frendo of USC College; and Zhengping Jia of the University of Toronto, was published online in the Nov. 17 issue of the *Journal of Neuroscience*. Butler, Assistant Professor of Biological Sciences, found that connections at the cellular level produce a guidance cue that tells an axon how fast and in which direction to grow in an embryonic environment."

[Click here for the complete story](#)

Kristina Lerman to PI \$1.4 Million Study of Social Networking Threats

VSoE News, November 23, 2010



Information Sciences Institute specialist, Research Assistant Professor Kristina Lerman, receives Air Force Office of Science Research funding. Project will bridge gaps between social science, mathematical, and computational approaches to social networks.

[Click here for the complete story.](#)

...NEWS at USC

Sour Research, Sweet Results

USC News, November 24, 2010

“Of the five taste sensations — sweet, bitter, sour, salty and umami — sour is arguably the strongest yet the least understood. Sour is the sensation evoked by substances that are acidic, such as lemons and pickles, and the more acidic the substance, the more sour the taste. But how acids, and the protons they release, activate the taste system has been beyond comprehension. Emily Liman, Associate Professor of neurobiology at USC College, and her team have discovered one way that cells responsive to sour tastes detect protons.”



[Click here for the complete story.](#)

Other News & Articles of Interest

Survey of women, men in IT shows differing views

CNET News, November 16, 2010

“Do men and women who work in IT see their jobs and career opportunities differently? A new survey from IT staffing firm [Technisource](#) finds some disparities but also areas of agreement...the "Technisource Women & Men in Information Technology Survey" discovered differences in viewpoints among men and women in IT in such areas as compensation and career challenges...”

[Click here for the complete story.](#)

Reducing the Impact of Negative Stereotypes on the Careers of Minority and Women Scientists

Science, November 26, 2010

“Social science research powerfully demonstrates how stereotypes, even those that people are not consciously aware of, can influence the careers of women and minorities. For example, people [rate the quality of a scientific paper differently](#) depending on whether they think a man or a woman wrote it. Stereotypes also reduce the self-esteem, motivation, and intellectual performance of women and minorities through a process called stereotype threat.”

[Click here for the complete story.](#)

***From all of us at WiSE:
Best of luck with finals and the end of
your Fall Semester!***