



University of Southern California
Women in Science and Engineering Program (WiSE)

www.usc.edu/wise

This is our last issue of the year – next issue: Monday, January 10, 2011

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

Meetings held the last Thursday of the month at 12pm in HNB 107

- Thursday, January 27, 2011
- Thursday, February 24, 2011
- Thursday, March 31, 2011

Bring your own lunch; cookies, coffee, and tea provided

Calendar: Other Events

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

**USC Center for Women and Men 7th Annual Women's Retreat
February 11-13, 2011**

Application Deadline: January 21, 2010

The retreat is free and open to all undergraduate and graduate women who are interested in a fun and empowering weekend of activities and workshops. The retreat will cultivate leadership skills and foster friendships, while keeping women's concerns at the forefront.

If you are interested in participating in the retreat, please download the application [here](#). If you have any questions contact Kyra Norsigian at cwm@usc.edu or call (213) 740-4900.

AWIS LAVC Events

• **December 14: Second Tuesdays Coffee Club**

Two different locations:

UCLA: Synapse Cafe (Gonda Building), 3pm

USC/Grifols/LA County Works: Starbucks (1131 S. Fremont Ave., Alhambra, CA 91803), 5pm

For more info: <http://www.awislavc.org/Home/social-events/monthlycoffeeclub-2ndtuesdayofthemoth>

• **Wednesday, December 15 at 11:00 AM EST: AWIS STEMiNAR "I have a mentor, now what . . . ?"**
[Register](#) for this Web-based program online at www.awis.org, click on Calendar of Events under the Programs & Events tab.

Attendees will learn how to work with their mentor to achieve their goals and advance their career. Discover the strategies that you will need in order to take your career to the next level.

- * identify the key areas for which you need mentoring
- * focus on critical concerns at your current career stage
- * develop action steps to keep your mentoring needs on track
- * understand the do's and don'ts of mentoring relationships
- * keep expectations realistic

Normally a \$99.00 value, this is offered absolutely free to AWIS members as a benefit of membership!

• **Thursday, December 16 – 'Holiday Food Program' packing with One Voice**

Join AWIS to help One Voice, a non profit organization, package food, toys, and book baskets that will be sent to approximately 12,500 people in need during the holiday season.

Meeting at the Santa Monica Hangar airport. RSVP to AWIS Outreach Chair, Allison Sargoy, asargoy@gmail.com. Call Allison at **310.963.4503** in order to meet up with the group that evening.

More details can be found at: <http://www.awislavc.org/Home/social-events>

If you have any questions about any of these events, email webadmin@awislavc.org or president@awislavc.org or visit www.awislavc.org.

From USC Viterbi Women in Engineering (WIE)

Give yourself the gift of MentorNet!

The Viterbi School of Engineering has partnered with MentorNet, an e-mentoring network that provides an outlet for matching undergraduate women with mentors from the STEM (science, technology, engineering and math) fields. This is an excellent opportunity to begin developing relationships with industry and/or academic contacts that may be good mentors while an undergraduate at Viterbi. There are over 1,300 registered mentors on MentorNet from a variety of companies and areas within engineering.

This service is completely **FREE** for Viterbi students and only takes a few minutes to fill out your profile. Go to MentorNet and complete your profile today! If you have any questions, contact viterbi.wie@usc.edu.

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

Online Application Deadline TODAY: December 13, 2010

What: 5 awards of \$60,000 + 1 week of ceremony, professional development/ training, and networking

For: Women Postdoctoral Researchers pursuing careers in life and physical/ material sciences, mathematics, engineering, computer science.

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.

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". Virtual registrations are also available which allow you to submit a paper for refereeing and possible publication in the journal, and the option of uploading a video presentation to our YouTube channel. Full details: <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>.

IIASA Young Scientists Summer Program 2011 (Graduate Students)

Program Dates: June 1 – September 1, 2011

Application Deadline: January 17, 2011

Each summer, the International Institute for Applied Systems Analysis (IIASA), located in Schloss Laxenburg near Vienna, Austria, hosts a selected group of graduate students, primarily doctoral, from around the world in its Young Scientists Summer Program (YSSP). These students work closely with an IIASA senior scientist mentor on a project proposed by the student, related to his or her graduate research. **Fellows selected by IIASA will receive funding to cover travel to IIASA and a modest living allowance.**

IIASA is an international institution, supported by the U.S. and 15 other member nations, engaged in scientific research aimed at providing policy insight on issues of regional and global importance in fields such as Energy, Transitions to New Technologies, Advanced Systems Analysis, Ecosystem Services and Management, Mitigation of Air Pollution and Greenhouse Gases, Evolution and Ecology, and World Population.

Further program info: <http://www.iiasa.ac.at/>. Applications: <http://www.iiasa.ac.at/yssp/register/>.

General Questions: Sheila Poor, YSSP Coordinator poor@iiasa.ac.at, U.S. contact: Margaret Goud Collins, Program Director for the U.S. Committee for IIASA, National Academy of Sciences IIASAyssp@nas.edu

Polymers @Case Research Experience for Undergraduates (REU)

Case School of Engineering , Case Western Reserve University

Program Dates: May 23 – July 29, 2011

Application Deadline: February 1, 2011

Jointly hosted by the Department of Macromolecular Science and Engineering & the Center for Layered Polymeric Systems (CLiPS)

- \$6000 stipend
- Research areas: polymer nanocomposites, layered materials, functional and responsive systems, high performance materials, biomedical devices, polymer rheology and processing
- Professional development: polymer fundamentals, communication skills, ethics, industrial visits

Contact: Prof. LaShanda Korley, Prof. David Schiraldi, reu-polymers@case.edu

Website: http://polymers.case.edu/highlights/undergrad_summer.htm

Cornell University REU Programs

2011 LSAMP Summer Undergraduate Research Program accepting applications

Program Dates: June 5 - August 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.

Summer Research at Cornell University: Cornell Center for Materials Research

Program: June 6-August 12, 2011

Applications available in middle of December

The Cornell Center for Materials Research is offering a special summer research program with a stipend valued at \$4000, room in one of Cornell's on-campus dorms and additional funds for travel (non-CU students only).

During the ten-week period, students will work with Cornell faculty on interdisciplinary materials research projects involving chemistry, physics, materials science and engineering disciplines. Students will also participate in an organized program of lectures, mini-courses (e.g. electronics, microscopy), laboratory visits and a variety of recreational activities.

- Open to Fall 2011 undergraduates who are US Citizens or permanent residents.
- Selection will be based on academic standing and faculty recommendations.
- Minority and female candidates are strongly encouraged to apply.
- All chemistry, physics and engineering majors are welcome to apply.
- Program includes stipend which covers housing, but does NOT cover food.

“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 Realff marylynn.realff@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. Two awards particular to WiSE:

DuPont Minorities in Engineering Award

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.

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.

Sharon Keillor Award for Women in Engineering Education

The Award: This award recognizes and honors outstanding women engineering educators. The award consists of an honorarium of \$2,000 and an appropriately inscribed plaque which is presented annually at the ASEE Annual Conference.

Eligibility: The award is to recognize and honor a woman engineering educator who has an outstanding record in teaching engineering students, and reasonable performance histories of research and service within an engineering school. Nominees will hold an earned doctoral degree in an engineering discipline, or in an engineering related field of natural science, including mathematics, and will have at least five years of teaching experience in an engineering school.

Previous Award Winner: USC's Alice C. Parker, 2009

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/>

Kellogg Center for Biotechnology Executive Education course 2011

April 11-15, 2011

BUSINESS FOR SCIENTISTS is designed to introduce scientists to business concepts and industry specific tools and frameworks. Basic knowledge in accounting, strategy, finance, and management will be covered and its relevance applied to the biomedical sector. The course will enable you to think of how innovation moves from bench to market.

For more information: <http://www.kellogg.northwestern.edu/biotech/execed/scientists.htm>,

or contact Jeanne Laseman, Program Manager, 847.491.5540, j-laseman@kellogg.northwestern.edu.

NSF Announcement: NSF Graduate Research Diversity Supplement Awards

Follow this link to read about an opportunity from NSF to broaden the participation of underrepresented students in Ph.D. programs in engineering through supplements to current research grants funded by the divisions in the Directorate for Engineering (ENG).

NSF 11-013_Dear Colleague Letter: Graduate Research Diversity Supplement:

http://www.nsf.gov/pubs/2011/nsf11013/nsf11013.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

NEWS at USC

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

DREU Project Participant Finalist in CRA Student Competition

USC VSoE News, December 2, 2010



Elaine Chew's Music Computation and Cognition Lab summer student KatieAnna Wolf was selected one of six female finalists for the highly selective Computing Research Association Outstanding Undergraduate Award. Wolf was a 2010 DREU undergraduate research student, one of 70 such fellows selected nationally from more than 500 applicants.

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

Other News & Articles of Interest

National Study Identifies Range of Opportunities to Improve Engineering Education

CAEE, 10/7/10

“New report reveals current strengths, shortcomings of engineering students' academic pathways: America's higher education system is widely regarded to be one of the largest and most flexible systems in the world. Despite this advantage, the U.S. is in danger of being outpaced by other countries in producing innovative scientists and engineers.”

[Click here for the complete story and a link to the report.](#)

... Other News & Articles of Interest

Too Nice to Land a Job

Inside Higher Ed, 11/10/2010

“You are reading a letter of recommendation that praises a candidate for a faculty job as being "caring," "sensitive," "compassionate," or a "supportive colleague." Whom do you picture? New research suggests that to faculty search committees, such words probably conjure up a woman -- and probably a candidate who doesn't get the job.”

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

Doctorate Degrees in U.S. Increase to Record Level/ Ph.D. Pipeline Expands Slightly

New York Times, 12/5/10; *Inside Higher Ed*, 11/29/10

“Research doctorate degrees were awarded to 49,562 students by American academic institutions in the 2008-9 academic year, the highest number ever reported, according to the National Science Foundation’s Survey of Earned Doctorates.”

[Click here for NY Times article](#)

[Click here for the Inside Higher Ed article](#)

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

MySciNet, 11/26/10

“Social science research powerfully demonstrates how stereotypes, even those that people are not consciously aware of, can influence the careers of women and minorities.”

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

Study Suggests Simple Fix to Help Women Succeed in Science

PBS NEWSHOUR, November 25, 2010



“A simple 15-minute writing exercise could help young women succeed in math and science classes, according to a study released by the journal *Science*. In recent years, women have earned nearly 60 percent of the college degrees awarded in the US, but only about one in five of the degrees granted in physics, computer science and engineering. What's behind the gender gap?”

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

In this photo, students attend a 'Science Careers in Search of Women' event at Argonne National Laboratory.

From all of us at WiSE, have a
Happy Holidays!!