

ADVANCE E-NEWS VOL. 1, NO. 7, 16 FEBRUARY 2009

Please feel free to forward, opt out, or provide feedback via email to: advance2@unl.edu.

Please forward any items (announcements, new or classic papers, funding and job opportunities) to advance2@unl.edu.

Thanks to all who suggested contributions.

A. Announcements

1. A few slots left for the COACH Workshop, March 2, "Strategic Performance"
2. ADVANCE-Nebraska **Speakers**, Spring Semester 2009
 - a. March 12: Dr. Kimberly Espy, Associate Vice Chancellor, Office of Research: Paths to Success Luncheon (free). ***Walking the Career-Family Tightrope***. REGISTRATION REQUIRED so we'll have enough forks this time! Deadline: March 9. Email advance2@unl.edu.
 - b. April 29: Dr. Heidi Schellman, Northwestern University and Fermi Labs: Paths to Success Luncheon (free). REGISTRATION REQUIRED. Deadline April 27. Email advance2@unl.edu.
3. Dr. Tracy Frank, Department of Geosciences, Nebraska Women in Science keynote speaker, February 20, Holiday Inn-Downtown, Lincoln.
4. "Write Winning Grants" seminar, March 13, sponsored by the Office of Research
5. UNL Childcare Center Update
6. ADVANCE-Nebraska has its first dual-career hire!
7. **ADVANCE-Nebraska Writing Retreat**: week of August 10, 2009, Love Library, City Campus
8. National Academy of Engineers inducts three women engineers

B. Professional Development for Graduate Students at UNL

1. Preparing Future Faculty at UNL
2. New publication of AAAS/Science: ***Career Basics***

C. Funding Opportunity

- From NSF: Nanotechnology Undergraduate Education (NUE) in Engineering

D. Academic Jobs

- Department of Computer Science at the George Washington University

E. Miscellaneous

1. Washington, DC - January 26, 2009 - The Association for Women in Science (AWIS) received a \$105,000, three-year grant from the Elsevier Foundation for a new project: "AWIS Leading Women to Create Their Own Personal Work/Life Balance."
2. Are you a mom of a child 12 or younger? Help with work-life balance by joining a survey
3. Engineering Not on Radar for Kids or Parents
4. Increasing Family Friendly Graduate Student Policies
5. Sisterhood of Workplace Infighting
6. Non-Science Jobs in Science

A. ANNOUNCEMENTS

1. A FEW SLOTS LEFT FOR THE COACH WORKSHOP, MARCH 2, "STRATEGIC PERFORMANCE"

This workshop will provide you with the tools you need to be effective in any situation that requires that you be taken seriously: lecturing, faculty meetings, committee meetings.

Please register by February 16.

The presenters, Lee Warren and Nancy Houfek, do a great job (Mary Anne and Diandra Leslie-Pelecky, formerly of Physics, can both highly recommend it!) and it is worth finding a substitute for your classes for that day.

Invest (your time) in your professional development! This workshop costs \$400 per participant when held at professional society meetings – we offer it **free** through ADVANCE-Nebraska.

2. ADVANCE-NEBRASKA SPEAKERS, SPRING SEMESTER 2009

- a. **March 12, Dr. Kimberly Espy**, Associate Vice Chancellor, Office of Research: Paths to Success Luncheon (free). ***Walking the Career-Family Tightrope*** REGISTRATION REQUIRED so we'll have enough forks! City Union, room TBA.

Dr. Espy is on the faculty of the Department of Psychology at UNL. Her research focuses on identifying the antecedents of learning, attention, and behavioral disorders in medically at-risk populations, including those born prematurely, those exposed to substances of abuse during pregnancy, and those exposed to toxicants in their environment. In 2001, Dr. Espy received the Rita G. Rudel Award for Pediatric Neuropsychology and Developmental Cognitive Neuroscience. In 2005, she received the Early Career Award from the Clinical Neuropsychology Division of the American Psychological Association, and was selected as a Fellow of the same division.

- b. **April 29, Dr. Heidi Schellman**, Northwestern University and Fermi Labs: Paths to Success Luncheon (free). REGISTRATION REQUIRED. Email advance2@unl.edu.

Professor of Physics at Northwestern University and a board member of the Fermi Lab, PhD, University of California at Berkeley, Alfred P. Sloan Fellow, Outstanding Junior Investigator, Department of Energy, Fellow of the American Physical Society. Free lunch! Registration is required (advance2@unl.edu). Come and hear how Dr. Schellman navigated a successful career in physics.

3. DR. TRACY FRANK, DEPARTMENT OF GEOSCIENCES

is this year's Nebraska Women in Science keynote speaker: "*Science as a career: A geologist's perspective.*" Friday, February 20, Holiday Inn Downtown.

The 11th Annual Nebraska Women in Science Conference hosts junior- and senior-level high school girls from the region and introduces them to a variety of science, math, and technological career paths. <http://www.unl.edu/scimath/>

4. "WRITE WINNING GRANTS" SEMINAR, MARCH 13, SPONSORED BY THE OFFICE OF RESEARCH

Register now for "Write Winning Grants" seminar The Office of Research will host "Write Winning Grants," a grant writing seminar, from 8:30 a.m. to 5 p.m. March 13 in the Nebraska Union auditorium. No charge for UNL faculty, staff and graduate students; fee for non-UNL participants: \$150. All participants will receive an extensive handout, as well as a copy of The Grant Application Writers' Workbook. Online registration is now open. Register at the website listed below. For more information, contact Peg Filliez in the Office of Research at pfilliez1@unl.edu or 472-2851.

<http://research.unl.edu/events/grantseminar/>

5. UNL CHILDCARE CENTER UPDATE, 26 JANUARY 2009

UNL Children's Center is going to open in August of 2009, as planned. The funding for the Whittier project is available and all will proceed as planned. At present we are working to set the weekly cost of care. Please feel free to share.

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6. ADVANCE-NEBRASKA HAS ITS FIRST DUAL-CAREER HIRE!

We are pleased to announce a great new colleague in the College of Engineering and the reunion of a family as of Spring Semester.

ADVANCE-Nebraska pays for the interview visit of qualified dual career partners of faculty when at least one partner helps us to achieve our goal of increasing the number of women STEM faculty at UNL. Contact our office for more information. advance2@unl.edu; 472-5211 (Mary Anne) or 2-3304 (Jill).

7. ADVANCE-NEBRASKA WRITING RETREAT

Plans are in the works now for ADVANCE-Nebraska to host its first writing retreat, the week of August 10, 2009. We will convene in the Love Library, write for a day, then meet with writing coaches who can help you get through the bottlenecks to clear and effective writing. The rest of the week is devoted to writing. ADVANCE-Nebraska will supply the room, wireless, breakfast and lunch. This retreat will focus on paper-writing for publication, although grant-writing is ok, too!

Bring that data that's been sitting under that pile on your desk and get it out the door! Re-write and re-submit! For more information, contact advance2@unl.edu. We welcome suggestions in the next few weeks as we plan the retreat.

8. NATIONAL ACADEMY OF ENGINEERS INDUCTS THREE WOMEN IN 2009 (OF 65 NEW MEMBERS)

KRISTI S. ANSETH, distinguished professor and Howard Hughes Medical Institute investigator, department of chemical and biological engineering, University of Colorado, Boulder. For pioneering the rational design of biomaterials for tissue engineering, drug delivery, and biosensing applications.

DEBORAH L. ESTRIN, director, Center for Embedded Networked Sensing, University of California, Los Angeles. For the pioneering design and application of heterogeneous wireless sensing systems for environmental monitoring.

CLAIRE L. PARKINSON, senior scientist and Aqua Project Scientist, NASA Goddard Space Flight Center, Greenbelt, Md. For leadership in understanding sea-ice changes through remote measurements and for leading NASA's Earth Observing System Aqua mission.

And one woman among the Foreign Associates:

MONIKA AUWETER-KURTZ, president, University of Hamburg, Hamburg, Germany. For development of electric propulsion and re-entry technologies that advanced space missions, and for commitment to aerospace education.

B. PROFESSIONAL DEVELOPMENT OPPORTUNITIES FOR GRADUATE STUDENTS AT UNL

1. PREPARING FUTURE FACULTY FELLOWS

This is an excellent program that acquaints doctoral candidates and post-docs with how an academic life, in various types of institutions, really works:

From: Laurie Bellows, Assistant Dean, Office of Graduate Studies

*Nominations are now being accepted for the 09-10 class of Preparing Future Faculty fellows. *

The Preparing Future Faculty (PFF) program at UNL is a professional development opportunity for postdocs and advanced doctoral students interested in pursuing a faculty position. Once selected, Fellows are enrolled in GRDC 900A, 900B and 900D, earning 2 credit hours for participation in the summer seminar and one credit hour for participating in a fall structured mentoring experience.

The summer seminar is offered during the second-five week session (July 13-August 13). During fall semester, students make two to four visits to a partner campus in the Lincoln-Omaha area and participate in various mentoring activities. Fellows may opt for a spring mentoring activity at a second campus.

To nominate an advanced doctoral student or a postdoctoral scholar, simply email me his or her name (along with contact information) and we'll follow up with specifics regarding the PFF program.

For more information about the PFF program, please visit our website

<http://www.unl.edu/gradstudies/current/dev/pff/> or contact me.

Thanks.

Laurie Bellows, Ph.D.
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<http://www.unl.edu/gradstudies/current/dev>

2. CAREER BASICS: A COLLECTION OF THE BEST CAREER ADVICE AND RESOURCES FROM *SCIENCE CAREERS*

From: Richard Weibl <rweibl@aaas.org> <mailto:rweibl@aaas.org>

New publication of AAAS/Science: **Career Basics**, the 2009 Edition is a collection of the best advice and resources from Science Careers.

You can get the whole publication or specific chapters as PDFs at

<http://sciencecareers.sciencemag.org/careerbasicspdf>

Center for Careers in Science and Technology
American Association for the Advancement of Science
1200 New York Avenue, NW
Washington, DC 20005-3920
Phone: 202/326-6674
Fax: 202/371-9849
e-mail: rweibl@aaas.org
www.aaas.org/careercenter/

C. FUNDING OPPORTUNITIES

From: National Science Foundation Update <nsf-update@nsf.gov> Date: Thu, 29 Jan 2009 13:32:10 -0600 (CST) Subject: **Nanotechnology Undergraduate Education (NUE) in Engineering**

[Nanotechnology Undergraduate Education \(NUE\) in Engineering](#)

Available Formats:

HTML: http://www.nsf.gov/pubs/2009/nsf09533/nsf09533.html?govDel=USNSF_25

PDF: http://www.nsf.gov/pubs/2009/nsf09533/nsf09533.pdf?govDel=USNSF_25

TXT: http://www.nsf.gov/pubs/2009/nsf09533/nsf09533.txt?govDel=USNSF_25

D. JOBS

From the ADVANCE list-serv:

The Department of Computer Science at the George Washington University is seeking applicants for two tenure-track positions in the broad areas of (1) systems and (2) systems security, one at the Assistant Professor level and one at the Associate or Assistant Professor level. For more details, please see the ad at <http://www.cs.gwu.edu/file/FacAd2008.pdf>

Our Department promotes diversity at all levels: students, faculty and staff. For instance, 38% of our tenured/tenure-track computer science faculty members are women. Furthermore, we are located in one of the most culturally and intellectually vibrant environments: the heart of the Nation's capital. If you are looking for a faculty position, we strongly encourage you to apply.

Shelly Heller (sheller@gwu.edu)

Associate Dean for Academic Affairs at the Mount Vernon Campus
Professor, Department of Computer Science

The George Washington University, Washington DC 20052

<http://www.seas.gwu.edu/~sheller/>

Mount Vernon Campus Ph: (202) 242-6698 Fax: (202) 242-6669

Foggy Bottom Ph: (202)994-5906 Fax:(202) 994-4875

E. MISCELLANEOUS

1. ANNOUNCEMENT FROM AWIS

Washington, DC - January 26, 2009 - The Association for Women in Science (AWIS) has received a \$105,000, three-year grant from the Elsevier Foundation for a new project: "AWIS Leading Women to Create Their Own Personal Work/Life Balance." The program will be launched on February 16 in Chicago with a workshop titled "Learn to Juggle Without Joining the Circus: Strategies to Deal with Your Career and Work-Life Balance Challenges."

For more info, see AWIS's website: <http://www.awis.org/AWISPressRelease.htm>

2. ARE YOU A MOM OF A CHILD 12 OR YOUNGER?

Note to UNL folks: what is the impact of motherhood on an academic career? Mason has published data that indicate a decrease in salary and productivity (Mary Ann Mason and Marc Goulden, 2004, Marriage and Baby Blues: Redefining Gender Equity in the Academy. *The ANNALS of the American Academy of Political and Social Science* 2004; 596; 86, <http://ann.sagepub.com/cgi/content/abstract/596/1/86>). But what if we helped moms get through the critical years needed for healthy babies and moms? In business, moms take an average of 2 years off per lifetime of work! Isn't it worth bringing highly trained, skilled, productive moms back to work ("on-ramps") rather than starting from scratch with a new faculty member? Please consider providing data for this survey (which is not sponsored by ADVANCE).

Sparrey Consulting and FWO Consulting are jointly conducting research to better understand what helps women to achieve success as a career professional and as a parent. This study is unique because of its goal of generating tangible resources to help moms and expectant moms through challenging transitions.

Survey Link: This survey (found at the following)

http://www.surveymonkey.com/s.aspx?sm=Com7mKwYUwPH6BEoqM7tFw_3d_3d will help women to learn from each other's experiences, to smooth the transition into parenting, and to find ways to balance personal and professional success, in an arrangement makes the most sense for them.

How long will this take? Respondents have averaged about 10 minutes to complete the survey. We hope that you can take a few minutes to provide your feedback so that other mothers (and prospective mothers) can learn from your experiences.

What will I get? For those who are interested, we will provide a summary of survey results via email.

How else can I help? This is an important topic for so many women and we would appreciate if you forward this e-mail with the link to the survey to moms you know. Additionally, if you think there are groups that we should contact to promote wider distribution of our survey, please let us know.

Sincerely,

Johanna Seppäläinen (email: johanna@fwoconsulting.com, website: www.fwoconsulting.com) and
Andrea Sparrey (email: andrea@sparreyconsulting.com, website: www.sparreyconsulting.com)

3. ENGINEERING NOT ON RADAR FOR KIDS OR PARENTS

A projected shortage of 70,000 U.S. engineers by 2010, may be a product of children's view and parents lack of encouragement regarding engineering. This American Society for Quality (ASQ) study found 85% of kids are not interested in a future engineering career. The most highly cited reasons included little knowledge about the subject (44%) and a preference for "a more exciting career" (30%). Notable gender differences among parental encouragement include: 31% of boys vs. 10% of girls were encouraged to consider engineering. To address this shortage ASQ will offer webinars during **National Engineers Week, February 15-21**. Titled "Real World of Engineering," the webinars are designed to provide a clear view of what engineers do and what skills are necessary to become an engineer.

[Engineering's Image Problem](#)

4. INCREASING FAMILY FRIENDLY GRADUATE STUDENT POLICIES

"If we want women to go into chemistry-and I really do; I want to use the full human talent pool available-then we have to make adjustments in what we do," says Richard N Zare, chair of the Stanford University chemistry department. New family-friendly policies designed to accommodate graduate students during prime child-bearing years began with a few schools in 2004, and have increased considerably. With hope to change the perception that the pursuit of science doesn't mix well with the pursuit of family, these schools' new policies include at least six weeks of a paid childbirth accommodation and maintenance of other student benefits including insurance and access to university facilities. While some schools have only helped one or two students, the policies have been well received and contributed to positive feelings among men and women, both in and outside the university.

[Increasing Parental Policies for Students](#)

5. SISTERHOOD OF WORKPLACE INFIGHTING

Leadership coach Peggy Klaus discusses the issue of bullying in the workplace. A study by the Workplace Bullying Institute found female bullies target other women more than 70% of the time. There are plenty of excuses women give, including the scarcity excuse, "why help someone who can replace me?" and the D.I.Y. Bootstrap Theory, "no one helped me, do it yourself!" The same gender role differences that perpetuate women's inequality in the work place also perpetuate bystanders. Teaching career skills will not address the issue if we "ignore learning to value one another so we can all get ahead." Klaus claims we must simply stop our own misbehavior and to call our colleagues on theirs.

[Women Bullying Women](#)

6. NON-SCIENCE JOBS IN SCIENCE

In light of the recent unemployment statistics, students in the Class of 2009 should not wait until graduation to begin their job search. The healthcare, biotech, and pharmaceutical industries are cited as having growth potential, but not necessarily in the areas one might think. Companies in these industries may hold promise for non-science majors; political science students can find opportunities in healthcare policy, and those with engineering backgrounds may find positions within Healthcare Information Technology. Other industries expected to grow in demand for science and non-science majors include government and education.

[Job Searching in a Tough Economy](#)
