

The Role of Gender and Technology in Education
by Jo Sanders
and
Presentation of Scholarship Awards

WEDNESDAY, SEPTEMBER 14, 6:30 PM

Jo Sanders is an author, researcher and teacher in gender equity in education and employment. She has directed and consulted on large-scale research and development projects since 1979. Her specialties are in the areas of technology, science, teacher education, single-sex education, and the psychological dimensions of learning. She has published about 60 books and articles. Ms. Sanders has taught thousands of teachers about gender equity in hundreds of speeches and workshops, held dozens of media interviews, been featured in over 70 newspapers and magazines, and given three international lecture tours. She has been awarded grants from the National Science Foundation and the U.S. Department of Education for more than 20 years. A recent major project has been a review of the research on gender and technology in education worldwide, available on her website. For more information please see her website at www.josanders.com

Agenda

6:30 Networking and Refreshments
7:00 Scholarship Presentations
7:30 Presentation by Jo Sanders
8:15 Wrap-up and Networking

Where

Fred Hutchinson
Cancer Research Center
Day Campus
Weintraub Building B1-072/B1-074
1100 Fairview Ave North
Seattle, WA 98109

President's Welcome from Maralee Mcvean

Welcome to a new round of AWIS programs and networking opportunities. In the time I have been involved with Seattle-AWIS, I have been amazed at the diversity of backgrounds, careers, and interests of the members. We are fortunate to live in an area that offers opportunities for so many disciplines and career choices. AWIS takes advantage of this rich assortment of successful women by presenting programs and topics that touch on career development and networking, education, biology, ecology, chemistry, engineering, computers, and a variety of other scientific disciplines. By taking an active part in AWIS, you can both enhance and draw upon this network of expertise.

Women in science contribute at a number of different levels including mentoring, education, health care, public policy and entrepreneurial spirit. I believe we have the power to extend this influence. Some goals shared by the local and national AWIS organizations are:

- to communicate the importance of being scientifically literate;
- to increase public understanding of the role that women play in science and engineering;
- to recognize and reinforce the importance of mentoring at all levels of education and career;
- to increase opportunities to interact within scientific areas;
- to strengthen connections among organizations that need the participation of women in the sciences, including corporate and academic worlds, associations of women and associations of sciences, and between higher education and K-12 schools.

Participation in AWIS gives us the means to achieve many of these goals. I encourage all of you to engage energetically in realizing these objectives at AWIS meetings and in your everyday encounters.

Please spread the word about the opportunities and information available from AWIS. The Seattle-AWIS meetings are held monthly at the Fred Hutchinson Cancer Research Center. I look forward to seeing you all at future AWIS events.

Scholarship Committee

by Fran Solomon

On September 14, the Scholarship Committee will have the pleasure of presenting scholarships to 10 outstanding future scientists. The scholarship winners and their majors and schools are:

Chrystal Buchanan, microbiology, junior at University of Washington (UW)
Kristen Davignon, biology, senior at Pacific Lutheran University (PLU)
Teizeen Mohamedali, environmental science, senior at Western Washington University
Elizabeth Padilla, biology, senior at PLU
Julie Parrott, environmental biology, senior at Seattle Pacific University
Euneka Robinson-McCutchen, civil engineering, senior at UW
Tasha Snow, oceanography, junior at UW
Pei Yee Soon, biology, senior at UW
Diana Thayer, biology, senior at UW
Breanna Vollmar, chemistry and biology, junior at PLU

The Scholarship Committee wants to thank again all of the AWIS members, King County and Microsoft employees, and Seattle area companies who contributed money to the scholarship fund. Special appreciation goes to ZymoGenetics for their generous donation of \$3000 and to Rosetta Inpharmatics for their generous donation of \$2000. Companies that contribute at least \$1000 to the scholarship fund have a scholarship named after them. Three of this year's scholarships are named in honor of ZymoGenetics; two scholarships are named in honor of Rosetta Inpharmatics.

As Scholarship Chair, I want to thank my friend and committee colleague Lee Dorigan for her contributions to fundraising, reviewing applications, interviewing finalists, and selecting winners. I also appreciate the participation of Sally Fitts in interviewing finalists, Maralee McVean and Peggy Smith in reviewing applications, and Laura Streichert in fundraising. The Scholarship Committee welcomes additional members to participate in our rewarding work. Please contact me at fran.solomon@metrokc.gov for more information on how you can get involved.

Biographical profiles of three of this year's scholarship winners are presented below (in alphabetical order). The other scholarship winners will be featured in the October, November, and December issues of the newsletter.

Chrystal Buchanan

After starting her college studies at Edmonds Community College, Chrystal transferred to the University of Washington where she is an enthusiastic microbiology major who is completely supporting herself through college. Chrystal is proactive in seeking opportunities to obtain research experience. This past summer, she interned at ZymoGenetics, where she conducted protein research focusing on the immune system. For the 2005-2006 school year, she is actively seeking an undergraduate research position at UW that focuses on AIDS and other sexually transmitted diseases. After graduating from UW in 2007 with a bachelor's degree in microbiology and a minor in chemistry, Chrystal will pursue a PhD in virology followed by a research and teaching career. Her dream is to make a difference for people in developing countries who are living with AIDS. Seattle AWIS is pleased to award her a ZymoGenetics scholarship.

Kristen Davignon

Kristen balances a large credit load of difficult classes with working part-time at the Point Defiance Zoo, volunteering at a small animal clinic, participating on the PLU varsity track team, and holding a leadership position in her resident hall council. Her work experiences have confirmed her passion for veterinary medicine and her professors consider her to be the top pre-vet student at PLU. After graduating from PLU in 2006 with a bachelor's degree in biology and minors in chemistry and art, she plans to attend veterinary school. She looks forward to a practice in both small animal and equine medicine. Another goal of Kristen's is to become a horseback riding instructor and give riding instructions to disabled and disadvantaged children. Seattle AWIS is pleased to award her a ZymoGenetics Scholarship.

Teizeen Mohamedali

While growing up in Kenya, Teizeen developed a fascination with the natural environment. She and her family emigrated to the U.S. five years ago. Teizeen is completely supporting herself through Western Washington University's Huxley College of the Environment. She participated in a student research project on water purification techniques and processes for Proctor & Gamble (P&G) and the Industrial Design Society of America. This past summer, she had a research internship at the Oregon State University Marine Science Center in Newport, Oregon and also received a grant from P&G to present her research results at a sustainability conference in Greece. After receiving her bachelor's degree in environmental science with a minor in sustainable design in 2006, Teizeen plans to pursue a Master's degree in Environmental Engineering. Her long-term career goal is to return to Kenya and apply her education and skills to sustainable engineering design of drinking water and wastewater sanitation systems there.



GIRLS IN ENGINEERING MATH AND SCIENCE

Would You Like to Share Your Love of Science?

GEMS is composed of a group of women, such as yourself, who hope to give young 8th grade women a better idea of why they should consider a career in engineering, math, or science. (GEMS = Girls in Engineering, Math and Science) We organize monthly activities along engineering or science themes that are fun and interesting. The organization is completely run by volunteers, each contributing ideas and activities as she is able.

What you will do:

As a mentor, you give as much or little time as you can—help organize an activity or a field trip, participate in the activities, pick up supplies as needed or even just help with ideas.

Example GEMS activities:



Catapults (engineering): The girls learned some of the physics behind catapults and finished by designing their own and launching gummy bears. Which angles and launch positions give the farthest or highest flight path?

Wings Aloft Field trip: The girls visited Wings Aloft and learned a little about flight school and the planes they use.

Comets and dry ice (science): The girls learned about the properties of both comets and dry ice. After a quick presentation about what makes a comet both a solid and luminous object we had them make their own comet heads, often referred to as “dirty snowballs.” To show the versatility of dry ice we also demonstrated its use in making a general favorite, ice cream.

Space Exploration (science): The girls learned to consider the concerns of waste and insulation in space. They were provided with food, both packaged and not. The food was weighed before and after consuming the edible portions. Which foods would be most efficient to have on a space shuttle? The girls made makeshift “gloves” with Ziploc bags filled them with “insulation” and dropped them into an ice bath. Which form of “insulation” (paper, Crisco, sand etc.) provided the best insulation?

If you are interested please contact Natascha at tassynat@yahoo.com. Thanks.

Mentoring Workshop Opportunity Coming Up This Fall:

The design and implementation of programs offered through MentorNet (www.MentorNet.net), the E-Mentoring Network for Diversity in Engineering and Science, benefit from research and expertise in mentoring. With sponsorship from the National Science Foundation's Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring program, and Texas Instruments, we are offering an easy way to share that expertise with you and your colleagues.

Registration is now open for an upcoming special workshop designed to showcase the latest in mentoring knowledge and practice:

Success through Mentoring: A Workshop on Mentoring Research and Practice
9 - 5 p.m. September 29th 2005, Denver, Colorado

Mentoring is a vital strategy to retain women and people of color in engineering and related sciences, fields in which they are extremely under-represented.

Presented by MentorNet (www.MentorNet.net), the leader in e-mentoring programs in engineering and science, and held in collaboration with the 2005 SACNAS (Society for Advancement of Chicanos and

Native Americans in Science) National Conference (<http://www2.sacnas.org/confNew/confClient/>), this workshop promises to be a lively and informative event of special interest to anyone providing support for women and people of color in university settings.

Speakers, including author and mentoring expert Lois J. Zachary, mentoring scholars Stacy J. Blake-Beard and Ellen Ensher, and MentorNet founder and CEO Carol B. Muller, will share state-of-the art research and practice on the design and implementation of effective mentoring programs.

Who will benefit from attending:

- Anyone interested in state-of-the-art research and practice for mentoring and email-based mentoring
- Anyone responsible for designing, managing or maintaining a successful mentoring program of any kind
- Anyone interested in effective strategies to retain and advance women and people of color in engineering and science
- Higher education administrators - especially those involved in minority engineering and science programs

Space is limited and pre-registration is required.

Cost: \$95 if registration is received by August 15. \$125 for registrations after August 15.

Register at <http://www.mentornet.net/workshops/sacnas.aspx>

Please notify any colleagues who would also benefit from this opportunity.

Seattle AWIS Web Site Gets a Makeover

The Seattle AWIS Web site has moved! Check out its new look at www.seattleawis.org for meeting dates & times, online newsletters, job openings, and everything you need to keep you connected. Log on to the new Seattle AWIS site today! If you have any questions, comments, or suggestions, please email chelsea@webgirlcreations.com.

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