

**JANUARY 2005**

**JANUARY PROGRAM FEATURES CAREER PANEL**

by Maralee McVean

The meeting will be held January 19, 2005. We will begin with networking at 6:30 pm and panelists at 7:00 pm.

We will start out the new year with the popular career panel program. As usual, we have assembled a diverse group of women involved in the sciences to speak this year.

Other speakers may be added, but currently our panelists include:

**Constance Lehman, M.D., Ph.D.,  
Director of Breast Imaging at the  
University of Washington and the  
Seattle Cancer Care Alliance**

Dr. Lehman is currently an associate professor of Radiology at the University of Washington School of Medicine, an affiliate investigator of the Fred Hutchinson Cancer Research Center, and Director of Breast Imaging in the Department of Radiology and at the Seattle Cancer Care Alliance. She mentors residents and fellows in radiology on research projects and is responsible for training residents and fellows in clinical breast imaging. Her research interests are focused on new methods and applications of breast MRI, including MR-guided biopsy, and on factors that influence the performance of mammography in early cancer detection.

**Quynh Pham, Vice President of Equity Research, Delafield Hambrecht, Inc.**

Quynh Pham is currently the Vice President of Equity Research at Delafield Hambrecht, Inc., a full-service investment bank with a Pacific Northwest focus. Prior to joining Delafield Hambrecht Quynh was a research scientist at the University of Washington Genome Center. Working under the guidance of Dr. Maynard Olson, Quynh worked on a number of sequencing projects that included mouse T-cell receptor beta locus, human major histocompatibility complex, *Pseudomonas aeruginosa* genome, and *Pseudomonas* Variation Study. She has published in a number of scientific journals and holds a BS in Microbiology and a MBA with honors from the University of Washington.

**Paula Szkody, Professor, Department of Astronomy, University of Washington**

Prof. Szkody uses a multiwavelength approach to observational studies of close binary stars (stars whose orbits are roughly 1 solar radius or less) called Cataclysmic Variables (CVs). At present she is an active user of the Hubble Space Telescope, Chandra, FUSE, and RXTE satellites, and ground-based optical facilities around the world. With colleagues participating in the Sloan Digital Sky Survey, she is currently finding the faintest, lowest mass transfer CVs. These observations have led to insights into the nature of mass transfer and accretion onto

**When**

**January 19, 2005**

**6:30 pm** Networking

**7 pm** Presentation

**8 pm** Wrap up & Networking

**Where**

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

magnetic and non-magnetic white dwarfs, the structure of accretion disks and their X-ray-emitting boundary layers, stellar coronae, and the effects of irradiation on the upper atmospheres of late-type secondary stars. The results are elucidating the long-term evolution leading to the formation of these ultra-short-period binaries.

### ***Beth Anderson, Scientific Illustrator, Arkitek Studios***

As co-founder and CEO since 1997, Beth is the driving force behind Arkitek Studios. It was her vision to establish a unique, creative shop that provides innovative visual content for clients in the science and technology fields. She is best described as a scientific creative with a pioneering spirit. Her unconventional path to developing her talent has been the catalyst for her innovative work in 3D illustration and animation. Ms. Anderson provides the core concept and scientific visualization for clients' projects and oversees the daily management of Arkitek Studios.

Beth draws on her schooling in computer graphics, a brief career building scientific equipment, and experience with a rapid cloning system for high throughput detection of novel antibiotics and a system for high-resolution two-dimensional electrophoresis. Her early years revolved around the performing arts. At age 16 she left Oak Ridge, Tennessee for Stuttgart Germany to pursue a scholarship at the Stuttgart Ballet's school. From there she danced in New York City, Denver, and Mexico City, and retired at age 24. Following that, she worked as a rock and blues musician for the next 13 years, traveling around the US and the world on tour.

## ***Joint AWIS and AWC Meeting to Feature Speaker on Accessing and Applying Genome Data***

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**by Maralee McVean**

Our February program will be a special joint program with the Association of Women in Computing (AWC). At the kind invitation of the AWC members, we can join them for dinner and a speaker on February 15, 2005. Keep in mind that this is a **Tuesday** night, not our usual Wednesday night meeting. The meeting will be held at the Rock Salt Restaurant on Lake Union. Networking starts at 6 pm, dinner is from 6:30-7 pm, and the speaker will present from 7-8 pm with time for questions. The speaker will be Warren Lathe, a representative of Open Helix, whose mission is to teach the public how to use the USC genome browser. To learn more about AWC or to sign up for this special meeting, AWIS members will need to go to the AWC website at [www.awcps.org](http://www.awcps.org). The fee is not yet announced, but should be \$30 or less. We need to RSVP on their website by Feb. 11, 2005. AWIS members can opt to attend the program portion only for a lower fee.

## ***Scholarship Committee and Employee Charitable Contribution Campaigns***

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**by Fran Solomon, Scholarship Committee Chair**

The Scholarship Committee is pleased to announce that the AWIS scholarship program is listed in this year's King County Employee Charitable Contribution Campaign brochure as a potential recipient of employee contributions. This is a convenient way for King County employees to contribute to our program and for our program to receive additional funds.

Our next goal is to be listed in the brochure for the University of Washington (UW) Employee Charitable Contribution Campaign next year. We would like to identify an AWIS member who works or studies at UW and would be willing to prepare the application materials. The King County application can be used as a template; therefore, this task will not be a large time commitment. Because UW is a large employer and many AWIS scholarship winners have been UW students, the UW Employee Charitable Contribution Campaign would be an excellent and appropriate source of additional revenues for the scholarship fund.

If you are a student, faculty or staff member at UW and would like to help with this important task, please contact Fran Solomon ([fran.solomon@metrokc.gov](mailto:fran.solomon@metrokc.gov)) or Lee Dorigan ([lee.dorigan@metrokc.gov](mailto:lee.dorigan@metrokc.gov)).

## **Strategic Planning at National AWIS: Forging ahead to 2010**

**by Amy Springer**

This fall has been a busy time for the board and staff of National AWIS. An intensive strategic planning session was held in September to make long term plans for the organization's future. Seattle Area AWIS was one of the chapters asked to form a focus group last summer to provide input on the role of AWIS, and our input, along with that of other chapters, was used as a basis for the discussion of strategic planning. The goal was to articulate what makes AWIS unique and to determine how to set priorities for activities and goals over the next five years.

AWIS is the only national multidisciplinary organization devoted to supporting women in science, and its location in Washington DC positions it well to address policy issues relevant to women in science. AWIS serves to promote women scientists and to raise public awareness of issues that affect women in science and technology fields. "Subtle inequities that confront women in science are everywhere." Wrote AWIS Executive Director Susan Ganter in the Autumn 2004 issue of AWIS magazine. "These lost opportunities—both for women scientists and for the world of science—make AWIS and its mission more important than ever." The immediate goals that came out of the planning session were to

- 1) Increase retention of AWIS members and recruit new ones, including institutional and corporate members.
- 2) Raise money to close the financial gap in the AWIS budget, allowing the organization to fund important programs and update its databases (you may have already received a request for donations)
- 3) and Improve the organization's website and provide more accurate and timely content.

At the end of the strategic planning session, AWIS board and staff had drafted an integrated statement of mission and priorities (reprinted below) and had made themselves a long list of actions items and tasks to get started right away. "Our strategic planning meetings generated a lot of enthusiasm and energy to move AWIS forward," wrote AWIS president Elizabeth Ivey in the Autumn 2004 AWIS magazine. "Our energy continues to produce forward movement on our strategic plan." The results of this forward movement are already evident in recent press releases, new links to the website, and planning for upcoming Women in Science conferences (see below). No doubt the Seattle area AWIS community will have a chance to share in the energy and activities that come out of this, and we hope many of you will get involved.

### **AWIS Mission Statement 2005-2010:**

"The Association for Women in Science is dedicated to achieving equity and full participation for women in science, mathematics, engineering and technology. We are a *Network*, a *Resource* and a *Voice*."

From 2005-2010, we will focus on:

- Connection, supporting and mentoring women in science at all levels
- Identifying areas of inequity and building awareness of the gap
- Nominating qualified women candidates for key positions in other organizations
- Influencing policy

We will do this by:

- Building coalitions among US women's STEM committees and networks
- Leveraging the knowledge and experience of our members, chapters and broader network
- Gathering data on issues relevant to women in STEM and disseminating information and advice
- Leveraging our Washington DC location
- Building awareness of AWIS

Upcoming National AWIS conferences:

- February 21, 2005: AWIS annual networking breakfast and workshop (in conjunction with AAAS annual meeting), Washington DC
- June 23-25: National Conference on Women in Science and Engineering, Northampton MA

## Kiosk

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**Denice Dee Denton**, dean of the College of Engineering at the University of Washington and panelist at the 2004 AWIS Leadership Workshop in Seattle last February, has been appointed chancellor of the University of California's Santa Cruz campus. "She is an accomplished scholar, an energetic and articulate advocate about the role and importance of education in our society, and a skillful and innovative administrator who understands the increasingly important role UC Santa Cruz plays in the Silicon Valley economy and beyond." said Robert Dynes, President of the UC system.

AWIS offers corporate and institutional memberships: should your institution be a member? For details visit <http://www.awis.org/membershipbenefits.html>. If you would like Seattle Area AWIS to contact a representative of your corporation or institution, contact a\_springer 'at' yahoo.com.

*Do you have an announcement for the AWIS kiosk? Email [awisnewsletter@yahoo.com](mailto:awisnewsletter@yahoo.com).*



**GIRLS IN ENGINEERING MATH AND SCIENCE**

## GEMS Yeast/CO<sub>2</sub> Activity

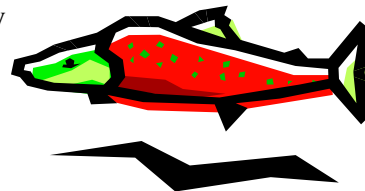
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On November 2, 2004, the GEMS girls explored the properties of yeast and its relationship to CO<sub>2</sub> and the idea of displacement. They started by blowing into some Ziploc sacks and finding the volume of the sacks using displacement. Given three Ziploc sacks, they added warm water and yeast to each. One remained as their control, the second had a tablet of "Equal," and the last had a cube of sugar added. The girls saw how yeast are similar to humans at a basic level because they also consume some energy source and expel side products such as CO<sub>2</sub>.

## GEMS Salmon Field Trip

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On November 21, 2004, a group of GEMS girls, parents, and mentors were given the opportunity to visit the Tolt River reclamation project on a field trip led by Fran Solomon. Although the Salmon weren't moving through at the time the girls had fun asking Fran questions, walking along the river and finally running into evidence of what they had come to see. In a side exploration, one of the girls found a post-spawning fish on the river's edge. All were excited as they not only got to see a fish but also were able to inspect it at close range.



## GEMS Catapult Challenge

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On December 7, 2004, the GEMS took on the challenge to design and construct catapults. We discussed the specifications and acceptance criteria for a successful catapult. Then they examined some of the main principles involved in constructing and accurate catapult. Using a model made from a popsicle stick, a paint stick and a 1.5" cube, the girls demonstrated the effect of the launch angle on the trajectory of the projectile. Using another model, this time made from a wood box, a rubber band, and a popsicle stick, the girls demonstrated how the potential energy is translated into the projectile's height and distance. Then they were on their own to design and construct a catapult from the given materials: a deck of playing cards, drinking straws, string, rubber bands, a roll of tape, a pair of scissors, and gummi bears. Lots of fun was had as the gummi bears flew through the air, and were consumed by all. Thanks to Marja Brandon of the Seattle Girls School for the inspiration of the catapult project.

## **AWIS-Seattle 2004-2005 Board Members**

### **President**

Amy Springer,  
A\_springer'at@yahoo.com

### **Secretary**

Libby Colasurdo  
Lcola123@aol.com

### **Treasurer**

Reitha Weeks  
rsweeks@msn.com

### **Newsletter**

Penny Kelly  
Lori Kuo  
Jenny Madeoy  
awisnewsletter@yahoo.com

### **Programs**

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### **Publicity**

Jamie Massart  
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### **Scholarship**

Fran Solomon  
Fran.Solomon@metrokc.gov

### **Mentor-Protégée**

Noelle Ebel  
nebel@u.washington.edu

### **GEMS**

Natascha Mueller  
tassynat@yahoo.com

### **Website**

www.scn.org/awis

### **General Business**

4706 33<sup>rd</sup> Ave NE  
Seattle, WA 98105

### **Scholarship Donations**

AWIS Scholarship Committee  
5805 16th Ave NE  
Seattle, WA 98105

AWIS-Seattle Membership  
6404 Greenwood Ave N #306  
Seattle WA 98103



## *January Program*

# *Career Panel*



*Wednesday January 19, 2005*

*6:30-8 pm*

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*Agenda: 6:30 pm Networking 7 pm Panelists Discussion 8 pm Wrap up and Networking*

We will start out the new year with the popular career panel program. As usual, we have assembled a diverse group of women involved in the sciences to speak this year. Currently our panelists include:

-  *Constance Lehman, M.D., Ph.D., Director of Breast Imaging at the University of Washington and the Seattle Cancer Care Alliance*
-  *Quynh Pham, Vice President of Equity Research, Delafield Hambrecht, Inc.*
-  *Paula Szkody, Professor, Department of Astronomy, University of Washington*
-  *Beth Anderson, Scientific Illustrator, Arkitek Studios*

**The meeting will be held at the Hutchinson Cancer Research Center, Weintraub Building, B1-074/076. The meeting is free and open to the public.**

**Getting here:**

**Shuttles** leave from UWMC Muilenberg Tower until 6:55 PM

**Metro** routes 25, 66 (from Northgate Park-and-Ride), and 70 (from U-district) stop at the Hutch.

**By car** From I-5 (north or south):

Exit Seattle Center/Mercer St

Move to far right lane

Right at light at bottom of exit ramp

Right onto Fairview Ave N.

Right at Yale Ave N. for Buildings 1-4

Detailed directions are at [www.fhcr.org](http://www.fhcr.org).