



NEWSLETTER

Mission Statement: The Association for Women in Science, Inc. (AWIS) is a non-profit organization dedicated to the achievement of equity and full participation of women in all areas of science and technology.

NEWS

Letter from AWIS-SD President Janet White

Dear AWIS members,

This month, I'd like to write about communication. As our chapter continues to grow, you may have noticed changes in some of the ways we communicate with you. We recently turned over our chapter e-mail process to the National AWIS Membership Office. Although there have been teething troubles, I have been working closely with the staff at the Membership Office, through phone calls and jointly diagnosing problems, to get the system up and running. The new process will ensure that new AWIS members start receiving chapter e-mails sooner after joining, and you now need only a single password and member ID on the national database to change your contact details.

I am also very excited to announce the launch of our new chapter website. The Website Committee, ably led by Barbara Armstrong, has done a tremendous job in improving the layout and user-friendliness of the website and updating the information it contains. We have a new calendar of events that will show you at a glance what's going on in our chapter. Check it out!

One of the benefits of being chapter members is that we also have many opportunities to communicate face to face, at our frequent events and meetings. I try to attend as many as I can and am always pleased to receive suggestions and feedback, and to meet and get to know new (and not-so-new) members. Sometimes e-mail just isn't adequate to communicate what you want to say. So, please come along to an event, have your say, and be heard! I look forward to hearing from you. – Janet

Not Getting AWIS-SD Chapter E-mails??

The National AWIS Membership Office is now handling all San Diego Chapter e-mails. Take a moment to update your information with AWIS National. Here's how:

- Go to: <https://www.sgmeet.com/awis/memberlogin.asp>
- Make sure your browser is set up to accept cookies.
- Log in with your National membership number and password. (If you never changed your password, it's "Curie.")
- Follow the instructions for searching the database or updating your profile.

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Upcoming Events

Compiled by Janice Payne

May 21: Women in bioScience Conference. "Envision Your Possibilities" at this one-day conference featuring two keynote speakers and a series of workshops focusing on career and personal development. (See article below.)

June 6: Strategy Session. "Manage Your Time. Don't Procrastinate ». Members only. Location: Salk Institute

July: Nanotechnology. Join us to find out what nanotechnology is and how it will affect our lives. Hear about advances in this technology, known as the science of the small, as it applies to particles, chips and even medicine.

August 8: Strategy Session. "Carving out 'Me' Time". Members only. Location: Salk Institute.

August: Second annual AWIS volunteer mixer. Open to active AWIS committee members only. Come meet the AWIS Board and committee chairs. Find out what each of the 10 AWIS committees is up to.

September: Strategies for Financial Success. Join us in the studio of the Ray Lucia Radio Show as he takes calls and answers our financial questions. Check out Ray Lucia's show on AM 1360 at 6 p.m.

Don't Miss WIB 2005!

By Hima Joshi

This year's Women in bioScience (WIB) Conference will have something for everyone. Do you work at a pharmaceutical company? Then you can't miss the workshop entitled "Building a Blockbuster – Insights into Drug Development." Are you thinking about becoming a professor? Perhaps you are already a professor who is looking forward to tenure. Go to the workshop called "Trekking the Tenure Track." Are you a post-doc who needs a little direction? Make sure you attend the discussion on "7 Steps to a Successful Postdoctoral Experience." Are you interested in

taking a new turn in your career? Don't miss "The Courage to Change – Alternate Careers."

If you want to keep your finger on the pulse of what's hot in science, be sure to catch the workshops on forensic science and stem cell research. And, of course, you can't miss our plenary speakers, Tammy Dwyer, Professor and Chair of the Chemistry Department at the University of San Diego and Joanne Silberner, Health Policy Correspondent from the Science Desk at National Public Radio. The WIB Conference will take place at the Salk Institute on Saturday, May 21. The registration deadline is May 7. For more information or to register, visit the following website: http://awis.sdsc.edu/WIB_2005/Home.htm.

Outreach Committee Event Greater San Diego Science and Engineering Fair By Susy McKay

This month, AWIS participated in The 51st Greater San Diego Science and Engineering Fair. Twenty-five AWIS members judged over 200 middle school and high school girls' projects. The projects' subjects ranged from behavioral science to biology to engineering.

Our judges selected seven winners from grades 7-12 to receive the AWIS Young Female Scientist Prize.

- **"Thirsty Trees, Hungry Beetles: What's Happening to Our Local Forests?" Katherine Altobello, Rhoades School (grade 7)** Katherine sought to characterize the susceptibility of different tree species to bark beetle infestation, as related to the current drought situation in southern California. By taking into account such variables as elevation, precipitation and immediate environment, as well as interviewing local forest rangers and ecologists, the author was able to draw conclusions as to the factors that affect a tree's susceptibility to this ravenous pest.
- **"Egg-citement of How Calcium Affects a Chicken's Egg" Cassandra Pimentel, St. Michael's Academy (grade 7)**
- **"Light vs Dark Beach Sand: An Iron Content Comparison" Avery Hunker, Pershing Middle School (grade 7)**
- **"Stability of a Dome with Changing Diameters" Kelly Dudek, Marshall Middle School (grade 8)** Kelly wanted to determine the effect of diameter on the sturdiness of arches. She found that the diameter-to-height ratio is important for a structurally sound arch.
- **"Do Crickets Communicate About Their Environment through Chirping?" Kristen Kelley, San Dieguito Academy (grade 10)** Using a home-built device that allowed crickets to migrate into different chambers based on either temperature or a recording of other crickets chirping, Kristen showed that crickets could be induced to venture into chambers that were not of their previously demonstrated preference if lured by a recording of crickets chirping while in the preferred temperature.
- **"Use of Quartz Crystal Microbalance to Study Antibody-Antigen Interactions" Evangeline Fleischaker, La Costa Canyon High School (grade 11)** Evangeline Fleischaker used a quartz crystal microbalance to study antibody-antigen interactions. She built a device that was able to detect small amounts of

virus particles, and could potentially be tailored for use in detecting microbial contamination. Evangeline worked on the project using money she was awarded from a grant based on her proposal.

- **"Effect of UV Light on Depressions on CH Plastic Films" Anna Marie Loch, Mt. Miguel High School (grade 12)** Anna set out to determine what factors were causing depressions in the CH plastic films. She found that both UV light and an oxygen-rich environment were detrimental to the integrity of these films. Her findings have resulted in a set of recommendations for the storage of these films to be used by the companies that make them.

Congratulations to the winners, and many thanks to our judges.

The Outreach Committee will also be organizing a reception for the winners to display their projects and receive their prizes. These prizes include \$100 for the senior division and \$50 for the junior division winners, a certificate, and a year's membership to AWIS. Be checking your e-mail for more information about the reception.

Shannon McClintock, an AWIS winner from last year, went on to win a \$15,000 scholarship at the Discovery Channel's "America's Top Young Scientist" Competition. This year's winners may follow in Shannon's footsteps. Please come join us at the reception to meet these exceptional young women and see what excellent science they are doing.

March Event Step Away From the Bench Without Leaving the Science Behind By Janice Payne

Have you decided it's time to step away from the bench but you don't know what direction to take? Are you interested in business development, sales or patent law? Our panelists at the March event shared their experiences of transitioning into each of these fields.

Elaine Weidenhammer, past AWIS-SD president, is currently Associate Director of Business Development at Nanogen. She "pestered her way into business development" three years ago after making a choice to leave research and development. She wanted to be externally focused on licensing and collaborations. Weidenhammer earned her Ph.D. in molecular biology from Carnegie Mellon and completed a two-and-a-half-year postdoc at UCSD. She was recently awarded an Athena scholarship for the new Flex MBA program at the UCSD Rady School of Business. Weidenhammer cautions that business development can mean different things to different companies. Her typical day involves negotiating licenses as well as working with outside collaborators and universities. However, business development can also mean sales and marketing.

Cella Mann, Senior Sales Representative with Applied BioSystems, described her typical day as "whatever I want." Mann earned her B.S. degree in molecular biology at UCSD and spent four years at the bench at Ligand Pharmaceuticals. She was interested in moving into upper management, so she began networking with executives and investigating her opportunities. She was told that in order to advance she would need sales experience. It took almost a year for her to get her first sales job only because she had no prior sales experience. She then enrolled in an MBA program at USC

while working full time. She “had no life” for a while but now is in direct control of her schedule and her income. Mann warns that when starting out in sales, “there is no way to know if you’re doing it wrong.”

Our third panelist of the evening, Jayshree Gerken, earned her Ph.D. in biochemistry at Dartmouth and completed a two-and-a-half-year postdoc at Yale. Academia didn’t appeal to her because it required a dedication to a very narrow area of science. She felt she might see more of the rewards of her work in industry, so she accepted a position at Gen-Probe. The labwork became drudgery for her, so she investigated other opportunities and discovered she enjoyed working with patents. She began networking with patent attorneys and law students and eventually accepted a position with Heller Ehrmann. She has since completed law school and is a patent attorney at Fish and Richardson. Gerken enjoys a great sense of accomplishment when working with clients, but she reminds attendees that patent law is a service profession and that clients may not fully understand the amount of time spent on a project.

This event was generously sponsored by the law firm Fish and Richardson, which specializes in intellectual property and corporate litigation. Many thanks to our panelists for giving us insight into their career transitions.

Strategy Session Focuses on Networking Skills

By Valerie Uzzell
Strategy Session Committee

On April 4, AWIS members were encouraged to practice one of the most important and difficult skills in working life – networking. In this Strategy Session, participants were guided through a series of exercises designed to help practice several crucial networking skills: starting a conversation with a new person, entering an ongoing discussion between several new people, and exiting a conversation gracefully. Participants were also given several useful tips to help them when stuck, such as the OAR method of starting a conversation: Observe (the shared environment), Ask (a question) and Reveal (something about yourself), and the GAF rule for closing conversations gracefully: (Goodbye, Appreciation and Follow-up).

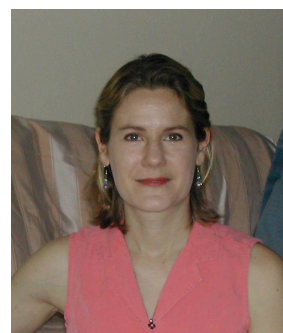
Although the suggested strategies were quite useful, the most stimulating part of this workshop was that it forced us to mingle widely among our fellow AWIS members. At least a half dozen times, at the ring of a bell, those of us with blue stars (or yellow or red) on our nametags were forced to leave the comfort of our recently begun conversations and strike out for the unknown. The surprising thing to me is that it wasn’t that hard.

In a matter of seconds, I was able to find common ground with everyone I talked to, and I had a number of interesting discussions on topics ranging from the position of women in science to the origin of my own last name. In the course of the evening, I came to realize two things. First, AWIS members are an uncommonly friendly bunch, and second, the fear of meeting new people is usually much greater than the actual difficulty in doing so. And it occurred to me, life might be more fun if there were a useful tinkling bell to force us to be receptive to new experiences.

FEATURES / OPINIONS

Member Profile: Susan Myers Fitch

By Hima Joshi



Susan Myers Fitch describes a piece of art that hangs above her couch. “Everybody else has a landscape. I have a cricket,” she says. This detailed picture, which Fitch drew while she was completing her master’s in scientific illustration at Ohio State University, illustrates that a cricket has its eardrum in its leg. Fitch has been drawing ever since she was a child. Her mother, a pathologist, and her father, an engineer, encouraged Fitch to use her artistic talents in a scientific way.

“There was something about the fact that I was brainy that meant that I should be a scientist,” says Fitch. On her last day of high school, when she was preparing to deliver her valedictory speech, Fitch’s father remarked to a relative, “she could be a doctor, but she wants to be an artist.” On the other hand, Fitch’s father nurtured her artistic side. When Fitch was 12 years old, he enrolled her in a class at the Toledo School Museum of Art where all the other students were adults.

Fitch, who embraces her diverse interests, feels that “people have other sides of their brains.” After spending several years honing her illustration skills, Fitch went to the University of California, Santa Barbara to pursue a doctorate in genetics. Her research involved the study of centromere structure and function.

In her final year at Santa Barbara, Fitch got a Mass Media Science and Engineering Fellowship from the American Association for the Advancement of Science (AAAS). Fitch describes the exciting experience that followed as “up there with the birth of my child.” The AAAS Fellowship sent her to Washington, D.C. to work at the Science Desk of National Public Radio (NPR) for 10 weeks. She was assigned to David Kestenbaum, a journalist who had a Ph.D. in particle physics. Fitch accompanied Kestenbaum to interviews at scientists’ homes. On these trips, she learned the ways of science journalism. “One of [the journalists’] tricks is to play dumb so [the scientists will] teach you... They’ll give you good quotes,” says Fitch.

During her time at NPR, Fitch visited the biotechnology company, Celera, in the year 2000, when they were coming to the end of their race with the National Institutes of Health (NIH) to sequence the human genome. When it was time for the official announcement of the end of the Human Genome Project in Washington, D.C., Kestenbaum was unable to go, so he told Fitch to grab a tape recorder and get some quotes. It was a thrilling assignment. “I stood up on a chair and put my microphone under Francis Collins’ chin,” says Fitch. Francis Collins was the director of the National

Human Genome Research Institute at the NIH. She asked him how sequencing had changed over the years. She knew the answer, of course, but she needed to get a good quote. His response was that it used to take years, and you could get a Ph.D. for it, but that had all changed. "Cloning and sequencing, cloning and sequencing," he said into Fitch's microphone, as he described the old methodology. The real payoff was that Kestenbaum used Fitch's tape in his news piece.

Fitch was still in graduate school at U.C. Santa Barbara when her husband moved to San Diego to start a new job. When she finished graduate school, Fitch accepted a job as a technical writer in the Patent Department at Isis Pharmaceuticals in Carlsbad. She was part of the original round of layoffs at Isis and was then hired by the San Diego office of the law firm Cozen O'Connor as a scientific advisor. Cozen O'Connor paid for a video course that prepared Fitch for the patent bar in 2003. After she passed the patent bar, Fitch became a patent agent.

Finding enough time to spend with her family while maintaining her pace at work continues to be a challenge for Fitch. "That's my latest thing. Trying to be a supermom," she says. She recently witnessed a magical moment in her son's development. "My son discovered his shadow," she says. Fitch would like to make sure that she is around for as many of these moments as possible. "The other part of being superwoman is that I want to be politically active," she says. "Some women do say you can do it all. I don't know how they do it."

However, Fitch's high expectations for herself are not the only cause of her stress. She believes that our corporate culture is also to blame. "In France they work 33 hours a week," she says. They also take a one-month vacation. In the U.S., most people work more than 40 hours a week and take two weeks vacation. According to the studies that Fitch has seen, France has a higher productivity than the U.S. does. The good news is that our corporate culture is slowly changing. "There is more flex time and job sharing," says Fitch.

Fitch first heard about AWIS from a co-worker in her lab at U.C. Santa Barbara. This woman had moved up to Santa Barbara from San Diego and asked Fitch to help her start an AWIS chapter in Santa Barbara. Although Fitch loved the idea, she couldn't find the time to do all of the work that was required to start a new AWIS chapter. When she moved down here, Fitch became a member of AWIS-San Diego. She joined the Scholarship Committee and then became a co-chair of the Corporate Sponsorship Committee. Fitch is currently on the Speakers Committee for the Women in bioScience (WIB) Conference. Her connection to NPR helped us secure Joanne Silberner of NPR's Science Desk as one of our plenary speakers. Fitch has even found the opportunity to get in touch with her artistic side on the WIB Planning Committee. If you would like to see her work, check out the WIB 2005 logo!

Something is AMIS

By Siobhan Malany

What is AMIS? The Association for Men in Science does not exist. Then who is mentoring boys? AWIS is all about outreach from judging high school science fairs, to awarding scholarships, to helping women get the most out of their careers and their lives.

The good news is that through policies advocating equal opportunities for women, and organizations such as AWIS, that

promote female advancement in science and technology, women have made great strides over the years. Since the 1960's, women have earned three times the number of doctorates in the biological sciences and five times the number of doctorates in the physical sciences and mathematics. Today, according to the U.S. Department of Education (DOE), medical school enrollments are now 50 percent women. Where women have jumped the greatest hurdles is in obtaining MBAs and professional degrees, in general. At the high school level, girls now take as many math and science classes as boys do, and they are narrowing the gap in terms of their enrollment and achievement in advanced placement courses.

But the statistics are out. Boys are falling behind the education curve, especially in their reading and writing skills. According to an article published in *The Washington Post* in March, some educators believe boys face an "unprecedented literary crisis that limits their opportunities." At the university level, women make up the majority of the student body on many top campuses, and the DOE estimates that by the year 2010, the female-to-male ratio earning college degrees will be 142 to 100. This gender imbalance will have significant economic and social implications.

Addressing gender gaps in the classroom is part of First Lady Laura Bush's new initiative. In an interview on National Public Radio's "All Things Considered," Bush stated, "I feel like in the U.S. that we've sort of shifted our gaze away from boys for the last several decades and that we've neglected boys." A large part of her cause will be directed toward inner-city minorities, who are academically being left behind. The largest gender gap exists between African-American men and women. Only 40 percent of African-American college students are male.

What can we do to fill what's amiss? We need outreach programs at the local level designed to boost boys' performance in education, without hindering the strides that girls are making at all levels. While girls score higher in language and writing skills on the Scholastic Aptitude Test, males outperform girls in the areas of math and science. And, women are still under-represented in physics and engineering fields, earning only 20 percent of the degrees awarded.

Should AWIS include boys in outreach events? Whether it revolves around gender issues or not, at the national level, the U.S. faces an education crisis. The National Governors Association hosted the National Education Summit in February and reported that the U.S. has one of the lowest high school graduation rates of all developed countries. Our students are ranked near the bottom on international math and science test scores. Our initiative needs to focus on boosting achievement rates while raising our standards. These troubling statistics are reflected at the secondary education level as well. Craig Barrett, CEO of Intel, writes in a recent *USA Today* article that Asian colleges produce six times the number of engineering degrees produced here at home. "If the world's best engineers are produced in India and Singapore, that is where our companies will go. This is not a threat but a reality in the modern world."

American Chemical Society National Meeting

By Alice Budai

The American Chemical Society (ACS) just had its national meeting in San Diego with a record number of 9,278 presentations in 933 sessions. The five-day conference in March attracted more than 15,000 chemists and friends of chemistry to share and learn

about current research in a variety of different fields related to chemistry. Information was presented through technical sessions, seminars, poster sessions, lectures, exhibitions, and classes. Attendees were given badges and thick brochures containing listings of presentation topics that took place at the San Diego Convention Center and surrounding hotels. Scientists moved from one room to the next and searched through their brochures for the next presentation whenever something did not interest them the way they had expected.

Social gatherings, breakfasts, and lunches were also made available, so that people with similar interests could assemble. The poster sessions provided another setting where specific science could intimately be discussed among the scientists. An atmosphere for networking was created by all, including the speakers who welcomed comments and questions about their research. It was a great environment for sharing information.

ACS is divided into numerous divisions including agricultural and food chemistry, biochemical technology, cellulose and renewable energy, and chemical education, to name a few, as well as the more familiar categories like analytical, inorganic, organic, and physical chemistry. The individual divisions organized additional sessions that brought specialized interests into the spotlight in a unique setting.

Two topics that were especially emphasized during the meeting and involve many disciplines were nanotechnology and the environment. Experienced senior members, as well as younger innovative professionals, presented some less technical seminars concerning the future of chemistry. All the speakers are still directly involved in their profession, which makes their points relevant. Whether people were interested in specifics, broad ideas, or were doing job searching, there was something for everyone.

Being among numerous colleagues who bring to your attention their detailed research can give a reassurance that we are all working on a small scale toward the same overall goal, to figure out and to apply. Conducting research can be demanding, and we need to be reminded of the overall goals in our society. Going to a national conference takes a person away from the work environment while still providing the setting for scientific focus.

After the conference, scientists filled the hotspots of downtown San Diego to relax and mingle with former colleagues and friends, and anyone still wearing a badge while taking in the city would stumble into a conversation about science. Sometimes you didn't even need a badge to start a friendly conversation with a stranger who was away from home for the sake of chemistry.

DEPARTMENTS

Your Two Cents

Compiled by Hima Joshi

Question from last time:

What is the scariest thing you have ever done?

Responses:

The scariest thing I ever did was jump off a 40-plus foot cliff into a lake at Sun Lakes up in eastern Washington when I was 18. I saw someone else do it before I did it, but I was still really, really scared. – Julie A. Kinyoun

The scariest thing I ever did was to transverse three steps across a snowdrift atop Mt. Whitney with an ice pick. Returning back across wasn't as scary. – Siobhan Malany

Question for next time:

What part of the WIB Conference did you enjoy the most?

We would like to publish your responses to this question in the next Newsletter! Please reply to Hima Joshi (hjoshi@sandiego.edu).

Note: Unless you indicate that you would like to remain anonymous, your name will be included with your response.

AWIS Member News

Barbara Coleman, past AWIS Vice President and owner of Pharmascouts, and Sean Preston were married on April 8 under the cross on Mt. Soledad. They then spent the weekend honeymooning in Big Bear. Congratulations to Barbara and Sean!

In this section of the Newsletter, we report on the accomplishments (new jobs, promotions, awards, publications, etc.) of AWIS-SD members. If you have any news to report, send it to Hima Joshi at hjoshi@sandiego.edu and write "AWIS Member News" in the subject heading.

About the AWIS Newsletter

The AWIS Newsletter is published six times per year and provides AWIS members and supporters with information on Chapter activities, career development, and issues related to women in science. The Newsletter is free to AWIS members. The subscription rate for non-members is \$20 a year.

May/June Newsletter staff:

Alice Budai	Hima Joshi	Julie Kinyoun
Siobhan Malany	Joanne Mullen	Janice Payne

Send news items and comments to Hima Joshi (hjoshi@sandiego.edu) or Janice Payne (janice_payne@hotmail.com). If you would like your article to be included in the next issue, please submit it as a Microsoft Word attachment by June 3, 2005. Please comply with the following length requirements:

- News stories: 250 words or fewer
- Reports on past events: 500 words or fewer
- Movie/Book reviews: 500 words or fewer
- Features (special-interest stories and profiles): 1000 words or fewer

IMPORTANT INFORMATION ABOUT



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