

January 2008

Upcoming Meetings:**January 07, 2008**

Prof. Carolyn Bertozzi, Ph.D.
HHMI, UC Berkeley

February , 2008

TBA

March 20, 2008

Nicole Shiloff, Ph.D.
Director, The Shyness Clinic, PGSP, Los
Altos, CA.



Newsletter

Association for Women in Science Palo Alto Chapter Newsletter

President's Note:

Happy New Year! I hope that you have all enjoyed the holidays and are ready to start the year with some exciting AWIS programs. We had a record turnout at our December meeting entitled "Get that Perfect Job" presented by Toby Freedman and Betsy Alberty. Toby Freedman signed and sold many copies of her book *Career opportunities in biotechnology and drug development*.

We also gained a number of new members so I hope that they will continue to attend and enjoy our programs. It is a good time to become a member, because we are increasing the contributions for dinner meetings to \$7 for non-members and \$4 for members as of January 2008.

To kickoff 2008, at our January meeting, we have Dr. Carolyn Bertozzi from UC Berkeley talking about the developments in the application of chemistry and nanotechnology in cellular processes. In March, there will be a program on shyness presented by Dr. Nicole Shiloff from the Shyness Clinic in Los Altos.

Please don't forget to nominate your favorite mentor for an award. Our Annual Awards Banquet will be in April or May. We will be presenting awards to three inspiring women in science as well as our chapter scholarships. This year, we are able to offer scholarships of \$1000 and \$800 to science students of Foothill College, Los Altos Hills, and De Anza College, Cupertino.

If you know of any students at these colleges, please encourage them to go to the college Financial Aid office to apply for an AWIS Scholarship.

I hope to see you all at our upcoming meetings.

Rachel Harte
AWIS Palo Alto President

Reasons to Join AWIS Palo Alto

As an AWIS member you can:

- Network! Receive support from other women in science in several ways:

- 1- online through awis.org (search for contacts by discipline, geographic area, or employment sector)
- 2- online in our LinkedIn group only for members
- 3- in person at our monthly meetings
- 4- at our fun fall picnic -- free admission for members and their families

- Attend our monthly chapter meetings for a discounted rate
- Connect with an online mentor free through Mentornet.net, a convenient matching service founded by one of our own chapter members

- Problem-solve with others who have been where you are now

- Develop leadership skills to advance your career. You must be a member to be on the board and to borrow career books from our dedicated library.

- Project a voice with impact on national issues like science education

- Promote opportunities for women in science

- Exercise your commitment to foster the next generation of women in science

- Recognize and hear from distinguished women in science

AWIS Palo Alto is a local nonprofit organization affiliated with National Association for Women in Science and AAAS. Your membership supports our committee work (Scholarship, Outreach, Mentoring, Newsletter) and our programs (chapter meetings, awards banquet, workshops, etc.).

Our goal is to double the number of members this year. To join, please see <http://www.awis.org/about/join.html>. For more information, please visit our chapter website at www.pa-awis.org, or email awis.pa@gmail.com. Let AWIS be "a network, a resource, a voice" for you!

NCC-AWIS Awards: Nominate A Mentor!

Your mentor deserves an award!

Has a woman ever helped your career? The least you could do is give her and her family a chance for a catered dinner in her honor. Nominate her for a mentoring award today!



AWIS needs your help to find all the inspiring mentors out there! Most professional assistance is done one-on-one. Your quick nomination allows AWIS to publicly recognize, at an elegant formal banquet, the importance of such mentoring.

Can you think of a woman in science who has taught and shared with others more than just the content and techniques of science? She may have served other women in science through professional societies, in a school, or on an individual basis. She is eligible whether she is at the bench or not, in industry or academia, early or late in her career, AWIS member or not.

The nomination process is simple. We need a letter of nomination explaining how the nominee has helped other women develop professionally. To make a nomination, contact Mary Alice Yund at nominations@nccawis.org (enter .NCCAWIS award nomination. as Subject text).

Nominations must be received by February 1, 2008. Don't delay. The recipients need to schedule to attend the banquet in late April.

Upcoming other AWIS Chapter Events:

EAST BAY: January 2008 (Held at Novartis)

JAN 24, 2008 MEETING

NEW YEAR NETWORKING MEETING

Meeting Agenda

6:30 Lite Supper

7:00 Meeting Begins

Regular Meeting Location

Novartis, 4560 Horton Street, Room 4,104.
Emeryville, CA

SFAWIS: First Networking Social – 2008

When: Wed., Jan. 9, 6:30-8:00PM

Where: The Pub at UCSF, Mission Bay

1675 Owens St

San Francisco

MENTORING DINNER MEETING

DATE: Monday, January 28th 2008

TIME: 7-9pm

TOPIC: What They Don't Teach You (subtitle: Developing Leadership and Management Skills for Career Success)
RSVP: By Friday, Jan 25th send email to mentoring_awis@yahoo.com

Palo Alto AWIS Board Elections

Elections for the AWIS Palo Alto Board will be in early March. Elected Board positions are President, Vice President, Member-at-Large, Treasurer and Secretary. If you or someone you know would like to be considered for one of these positions, please contact a current Board member (on the last page of this newsletter). Newly elected officers will take office on May 1, 2008. All PA-AWIS members are invited to vote. Look out for your electronic election ballot in your email.

Meeting Highlights:

November 2007 Hematopoietic Stem cells: Biology to Cure” Dr. Rajni Agarwal-Hashmi

By Neesha Suvarna

“Hematopoietic Stem cells: Biology to Cure” was the title of a very impressive talk by Dr. Rajni Agarwal-Hashmi at the AWIS meeting on November 14th 2007. The ever lingering question of stem cells and their implications to normal life was the reason behind planning of this talk. Dr. Rajni holds the position of Assistant Professor of pediatrics at Lucille Salter Packard Children’s Hospital at Stanford. Dr. Rajni has extensive experience as transplant specialist as well as a basic research scientist and was able to provide valuable insights on stem cell research and its potential utility in future therapies.



Dr. Rajni’s talk involved a description of the types of stem cell such as embryonic and adult stem cells. Dr. Rajni also provided a detailed schematic of the differentiation of the hematopoietic stem cells which are the most researched with established clinical application. The talk also provided a detailed description of the collection of stem cells from the different sources such as bone marrow, peripheral blood and umbilical cord blood. The main utility of stem cells is for transplant in patients with bone marrow failure leading to aplastic anemia, fanconi anemia and pure red cell aplasia. They are also utilized in patients with thalassemia and sickle cell disease who might have a disorder in the production of red cells. Almost half of the patients that undergo bone marrow transplant at Packard’s children hospital have been diagnosed with ALL or ANLL. In addition, in the future stem cell research can also be utilized for nerve cells production in Parkinson’s and Alzheimer’s patients, heart muscle cells of heart disease and pancreatic islet cells for diabetes. One of the lingering questions was with regards to cord blood storage. Although Dr. Rajni did not want to impose her views on

October 2007 Meeting:

How does a big company keep up with new stuff? Roche's approach to strategic business planning in Diagnostics.

Dr. Linda McAllister, MD, PhD., Director, Technology Management US Chief Technology Office, Roche.

by Lakshmi Jakkula.

Dr. Linda McAllister, Director of Technology management at US Chief Technology Office gave an astounding overview of how Roche's Chief Technology office is organized, its structure, role, Roche's Personalized Health care project, and some very interesting examples of Roche's innovative diagnostics in the personalized health care that something everybody is talking about as the 'future healthcare paradigm'.

Roche is one of the largest pharma, with about 60,000 employees world-wide with business units spanning from Applied Science, Molecular diagnostics, Professional diagnostics, and Diabetes care. Roche's diagnostics business is the largest in the world with 19% of the market share.

While describing the Roche's way of technology management, Dr. McAllister talked about Roche's consistent history of partnering, alliances, licensing and acquisitions for over 17 years period of Roche's recent history. She explained how the Technology office works as the conduit & advocate for the Companies, Technology Brokers, Universities, Institutions and Venture firms and how their Strategic Technology management division identifies technology trends and landscape, rank existing players and match to business area needs and comprehensive overview of technology field for all the Roche business units. The company's Technology Assessment and Due Diligence and Business Support units conduct In-Depth technology assessment, manage the feasibility studies, recommend an action plan to confirm technology performance, and provide support for IP due diligence, and support for acquisition / and creating an integration plan.

Dr. McAllister wanted to make a distinction between what public wants to see with Personalized Healthcare (PHC) but what that exists in reality with

the state of the art in diagnostics research. In personalized healthcare what the public came to expect are truly individualized therapies – something science and industry may not be able to deliver for some time. For now the personalized healthcare means 'drugs used with tests', and 'tests used with drugs'. But not prevention. Increasingly, treatment will be tailored to patient groups defined by their genetic disease pattern, defined as 'Therapeutic stratification'. She gave some examples of PHC: Current technologies for detecting p53 Mutations, p53 IHC and DNA sequencing analysis, and how AmpliChip p53 test accurately detects p53 somatic mutations in Cancer and showed how 454 Sequencing can detect HIV resistance genotypes.

December 2007 Meeting:

'Get that Perfect Job'

Toby Freedman, PhD., Synapsis Search
Betsy Alberty, BioEquities Recruiting

by Lakshmi Jakkula

On the evening of December 13, 2007, the author of the new book "Career Opportunities in Biotechnology and Drug Development", Dr. Toby Freedman of *Synapsis Search* presented her comprehensive, systematic assessment of careers in the biotechnology, pharmaceutical and medical device industries to a gathering of about one hundred people.

The delightful evening started with Dr. Freedman signing the copies of her book and discussing various possibilities and opportunities in the biotech industry with several of the people lined up to buy the book.

Betsy Alberty of *BioEquities Recruiting* gave her seasoned advice for job seekers during the networking hour of the meeting.

Dr. Freedman gave an elaborate overview of both traditional and non-traditional career paths in current biotech employment scene. The traditional R&D opportunities in development research and opportunities in non-traditional paths like Commercial Operations, Operations management, and Services sector. She said 'Regulatory affairs' is the current hot field for the job seekers. She urged people to broaden their horizons and consider various opportunities in the drug discovery and development, Biotech tools companies, Biotech services,

Government Institutions, Medical devices, academia and in other areas like agricultural industrial biotechnology, molecular diagnostics, veterinary companies, foundations, and social philanthropy.

She shared with audiences what she learned after interviewing more than 200 top level CEOs, VPs and other senior executives. They all said they were motivated by the overwhelming feeling of higher aspirations for developing drugs to benefit society. She said they all shared common personality attributes like flexibility, communication, and team player attitude, and interpersonal skills.

And Toby goes on telling, to get that perfect job, build your network, and find your niche.

Betsy Alberty: Betsy told audiences how to get the scoop on potential new employer. She advises, first know yourself. Consider where you are in your career, What do you want from this job? Large, medium, small company? Fast, slow pace and other lifestyle considerations. Do your due diligence. Study the management team. Chart the progress of the company. Read Press Releases, Annual Reports – Edgar search. Learn about the company history, culture, and planning for the future. Know about the position that you are interested in. Use your network to gain more information about the company. She advises, expand your network and use all the available bay area resources to get that perfect job.



Outreach--Girls in Space

by Violet Votin

Spacey or space-bound? Hundreds of middle-school girls attended the Sally Ride Science Festival on Sept 29, 2007 at NASA Ames Research Center in Moffett Field. Four AWIS volunteers (Brigit R., Violet V., Josephine S., Kunju S. and one daughter) were on hand to help them reach the stars!

Organized by first American female astronaut, Dr. Sally Ride, this hands-on annual fair encourages girls to be involved in many different sciences and hear about diverse careers. Sally Ride herself gave a memorable keynote address. The girls had a chance to ask questions about the fun of being weightless and the years of specialized training. AWIS volunteers donated their time and expertise with fun hands-on "experiments".

Why do UV-sensitive beads change color? Does sunscreen really block UV? How do you affect the chemical reaction inside a glow stick? It is easy to volunteer for science outreach. You receive assistance with activity ideas and supplies. Plus, it is a wonderful contribution to our community and inspire our next generation.

Contact Katy <kuokaty@scientist.com> to hear about future opportunities for you to be a science role model. Upcoming events include Girl Scout Science Day (Sat, Jan 19, Foster City), Girls Go Tech (Sun, Feb 10, Chabot Space & Science Center), and Synopsys Championship regional science fair (Wed, Mar 12, San Jose).



AWIS and MentorNet Team to Provide e-Mentoring Opportunities

MentorNet's One-on-One Mentoring Programs focus on matching women and underrepresented minorities with female or male professionals from all sectors as mentors for one-on-one, email-based mentoring (e-mentoring) relationships. As an AWIS member, you can sign up as a protégé or mentor -- for free.

Why Should You Join?

- For protégés, mentoring provides "real world" information, encouragement, advice, and access to networks (especially those often unavailable to women in male dominated

fields). [Click here](#) to see what protégés say about their MentorNet experience.

- Mentors volunteer their time to help a protégé, but often find an enriching and rewarding experience for themselves. [Click here](#) to see what mentors say about their MentorNet experience.
- With MentorNet's email based program, finding time for mentoring and being mentored becomes easy.

NOTE: The MentorNet Program is currently only able to serve undergraduate or graduate students, postdocs, and early career faculty at

universities.

We appreciate that some of our members do not fit this eligibility criteria.

You can still participate in the MentorNet's E-Forum, a web-based discussion group system designed to be a supportive and engaging place for [Community](#) members to discuss ideas and make connections. The E-Forum can provide a group mentoring experience that is complementary or stand-alone to the MentorNet One-on-One Mentoring Programs. To register, [Click here](#)

Job Announcements

Tech Museum Summer Camps

Want a challenge?

Feeling inspirational?

Share your knowledge and expertise!

Did you love summer camp as a kid? Renew that love!

Join us at the Tech Museum of Innovation in downtown San Jose and teach **2-9 weeks of a science, engineering, or technology class** to aspiring scientists and engineers entering grades 4 through 8.

We are now hiring **Lead Instructors** for 8 of our 14 classes:

Hours: approximately 8:30am to 5pm, Monday through Friday.

Pay: \$700 to \$800 per week of instruction as a Lead Instructor. An additional stipend is offered for curriculum development. Lead Instructors are encouraged to refine the existing class curriculum to make the class uniquely their own. With our new classes, Lead Instructors will help develop the entire class curriculum from scratch.

Typically, Lead Instructors have a Bachelor's degree and a strong background in a science or engineering field. There are also other potential possibilities for Instructors to teach another class or to work as an Assistant Instructor for other camp classes during our 9 weeks in session.

Our deadline for applications is January 31, 2008. Apply now! To learn more about these opportunities and others at our other programs, Camp Galileo and Galileo Summer Quest, please visit <http://www.galileoed.com/jobs> To apply, click on the application link and fill out our online application. We look forward to hearing from you!

Genentech

The following opportunity exists in our South San Francisco, CA headquarters:

Scientist - In Vivo Pharmacology

Responsibilities:

We are seeking a highly motivated candidate with strong "translational" interests to join our efforts in developing small-molecule and antibody-based cancer therapeutics for hematologic malignancies. This individual will lead a team focusing on an assessment of new indications, will subsequently initiate a de novo project in one or more indications, will participate to support existing target project teams in a heme/onc context and will also participate in the development of new murine models or elaboration of existing models.

Requirements:

A Ph.D. and postdoctoral training in the Biological Sciences with additional academic or industrial experience are required. The candidate must have demonstrated evidence of strong scientific ability and productive leadership and publication in the area of scientific inquiry related to oncology, immunology or normal blood cell development. Familiarity with discovery and development paradigms for antibody and/or small-molecule therapeutics is desirable.

Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: www.gene.com/careers and reference **Req #1000021305**. Please use Web - Other when a "source" is requested. Genentech is an Equal Opportunity Employer.



Association for Women in Science Palo Alto Chapter

Chemistry in Living Systems: Sheddina Light on Glvcans

Professor Carolyn Bertozzi, Ph.D.

Departments of Chemistry and Molecular and Cell Biology and
Howard Hughes Medical Institute, UC Berkeley

Join us for an interesting discussion around the application of chemistry and nanotechnology in cellular processes.

Prof. Carolyn Bertozzi is a native of Boston, MA and attended Harvard University as an undergraduate where she earned her A.B. in Chemistry in 1988. She moved to UC Berkeley to pursue a Ph.D. in Chemistry working with Professor Mark Bednarski on the synthesis and biological activity of C-glycosides. After graduating in 1993, she pursued postdoctoral research at UCSF with Professor Steven Rosen, characterizing endothelial oligosaccharides that promote leukocyte adhesion at sites of inflammation. Prof. Bertozzi returned to Berkeley as a member of the faculty in 1996.

Prof. Bertozzi is now the T.Z. and Irmgard Chu Distinguished Professor of Chemistry and Professor of Molecular and Cell Biology at UC Berkeley, and Professor of Molecular and Cellular Pharmacology at UCSF. In addition, she is the Director of the Molecular Foundry at the Lawrence Berkeley National Laboratory and an Investigator of the Howard Hughes Medical Institute. Prof. Bertozzi is a member of several Scientific Advisory Boards of biotechnology and pharmaceutical companies, co-Editor-in-Chief of *Current Opinion in Chemical Biology*. Prof. Bertozzi is a member of the National Academy of Sciences and the American Academy of Arts and Sciences, and has been recognized with numerous awards including the Ernst Schering Prize, MacArthur Foundation award, ACS Award in Pure Chemistry, Irving Sigal Award from the Protein Society, Presidential Early Career Award in Science and Engineering, ACS Cope Scholars award, and the UC Berkeley Distinguished Teaching Award.

Prof. Bertozzi's research focuses on applications of chemistry and nanoscience in the study of cellular processes. Her group has developed chemical approaches for profiling changes in cell surface glycosylation associated with cancer and identified metabolic pathways in *Mycobacterium tuberculosis* that are candidate drug targets. In addition, Prof. Bertozzi's group has developed new materials engineered at the nanometer scale to mimic the biological materials mucin and bone. Finally, her group has developed biomimetic coatings for nanotubes that enable their use in biological systems.

DATE: **Monday, January 7, 2008**
LOCATION: **PARC Auditorium, 3333 Coyote Hill Road, Palo Alto**
RSVP: **Online and free: <http://www.acteva.com/go/pa-awis>**
CONTRIBUTION at door: **\$4 for members, \$7 for nonmembers**
 Become a member at www.awis.org!

Schedule

7:00-7:30 pm	Networking and light supper
7:30-7:45 pm	Announcements
7:45-8:45 pm	Program
8:45-9:00 pm	Discussion

All women and men scientists, students, their friends and citizens interested in science are welcome!

Directions from the North: Take Hwy 280 SOUTH, exit at Page Mill Rd and at the bottom of the ramp turn LEFT and head towards Palo Alto. Turn RIGHT on Coyote Hill Road, before Foothill/Junipero Serra. After the top of the hill, PARC is on the left. Park and follow signs to the Auditorium (walk uphill through parking lot then down a flight of outdoor stairs).

Directions from the South: Take Hwy 280 NORTH, exit at Page Mill Road, turn RIGHT at the bottom of the off ramp and head up hill towards Palo Alto. Turn RIGHT on Coyote Hill Road, before Foothill/Junipero Serra. After the top of the hill, PARC is on the left. Park and follow signs to the Auditorium (walk uphill through parking lot then down a flight of outdoor stairs).

Directions from Stanford: Take Foothill SOUTH towards Los Altos. Pass Page Mill Road, turn RIGHT on Hillview and PARC is 2nd driveway on the right. Park and follow signs to the Auditorium (walk uphill through parking lot then down a flight of outdoor stairs).

See also <http://www.parc.com/company/directions.html> for map/directions.

For more info: www.pa-awis.org, or email awis.pa@gmail.com



MANAGING SHYNESS AND SOCIAL ANXIETY: A COGNITIVE-BEHAVIORAL MODEL

Nicole Shiloff, Ph.D.

Director, The Shyness Clinic, Pacific Graduate School of Psychology (Los Altos, CA)
Staff Psychologist, New Dawn Eating Disorders Recovery Center (Sausalito, CA)

Dr. Nicole Shiloff is a licensed clinical psychologist with a Ph.D. in clinical psychology from the University of Miami. She is an expert in mindfulness-based stress reduction therapy and led groups for adults in an outpatient hospital setting. While at Stanford, Dr. Shiloff further specialized in working with individuals with anxiety disorders as well as those with eating disorders. Dr. Shiloff is currently the Director of the Shyness Clinic, a specialty clinic within Pacific Graduate School of Psychology's training clinic, the Kurt and Barbara Gronowski Clinic. She has worked as a staff psychologist at the Clinic for two years and provides individual therapy to children, adolescents, and adults with shyness and social anxiety. She also runs several groups for young adults and adults, using a cognitive-behavioral and interpersonal approach, based on Dr. Lynne Henderson's Social Fitness approach to treating social anxiety.

DATE:	Thursday, March 20, 2008
LOCATION:	PARC Auditorium 3333 Coyote Hill Road, Palo Alto
RSVP:	Online and free: http://www.acteva.com/go/pa-awis
CONTRIBUTION at door:	\$4 for members, \$7 for nonmembers
	Become a member at www.awis.org!

Schedule

7:00-7:30 pm	Networking and light supper
7:30-7:45 pm	Announcements
7:45-8:45 pm	Program
8:45-9:00 pm	Discussion

***Welcome!! This Meeting is free. You don't need to be a member to attend.
All women and men scientists, students, their friends and citizens interested in science are welcome!
We ask for a \$3 donation to offset the cost of food.***

Directions from the North:

Take Hwy 280 SOUTH, exit at Page Mill Rd and at the bottom of the ramp turn LEFT and head towards Palo Alto. Turn RIGHT onto Coyote Hill Rd. Turn LEFT into PARC (formerly Xerox PARC). Follow signs to the Auditorium on your left at end of parking area, down flight of outdoor stairs.

Directions from the South:

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See also <http://www.parc.com/company/directions.html> for map/directions.



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Chapter dues \$25. Student/unemployed \$10. Membership in national AWIS is required. Pick up an application at a chapter meeting or visit www.awis.org. For newsletter contributions, email lakshmi_jakkula@comcast.net

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