

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 33 No. 7

JULY 2011 NEWSLETTER TOPICS

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Chair's Message

"Mommy, why is science mad?" I had to check myself not to brake or swerve unexpectedly as my quiet, unnervingly observant 4-year old daughter floated this question



to me in the front seat as I was driving her to school. Why indeed? Well, I suppose there could be many reasons...lack of national funding or support, lack of public awareness of the importance of science, lack of understanding, or in extreme cases-- even apathy. But I don't really think this is what she wanted to hear.

She was, not surprisingly, referring to "Mad Science" camp, a part of her preschool program this summer. She's used to hearing that Mommy is mad because she ran into the street, or Mommy is mad because she

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Marjorie Balazs Awarded Honorary Doctorate by USF

by Robert Galemmo

"Failure is not a sin...it is a learning opportunity," this was hard won advice from Marjorie Balazs to the new MS and Ph.D. recipients at the 152nd Commencement of the Graduate School at University of San Francisco on May 20.



Marjorie Balazs in her academic regalia

"Find a job you are passionate about, don't stay in a job that does not excite you." She advised her audience. "Believe in yourself. You have all of the tools you need to succeed."

But not all advice is benign: as a young woman in the 1950s with two years of chemistry she was told "you might as well stop now, because you will never be more than a chem. tech."

Apparently, she did not listen...or did she?

Did this spur her on to become a pioneer in the semiconductor industry, to found a company and become the first female CEO in Silicon Valley? Whatever set her on her life's journey, she had arrived to

be awarded the honorary Doctorate of Humane Letters by her alma mater.

Her company, Balazs Analytical Laboratory of Fremont, CA, was founded on the chemical methods she developed to precisely assay the amount of a doping agent, a miniscule quantity of a non-metal added to an otherwise pure elemental semiconductor to control the electronic properties of a transistor or diode. Her method



Marcelo Camperi, Dean of the College of Arts and Sciences, University of San Francisco; Stephen A. Privett, S.J., University President; Marjorie Balazs, and Teresa Win, University Trustee, at the U.S.F. Arts and Sciences commencement ceremony.

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- Reminder -

Annual Family Picnic, Awards Ceremony and IYC Treasure Hunt

Stanford University, Saturday July 9, 2011

4:00 p.m. Wine Tasting 5:30 p.m. Dinner 7:00 p.m. Awards



Marjorie Balazs, continued from front page

became the cornerstone of the rigorous quality control that makes semiconductor technology possible. Her company set the industry standard for water and chemical purity used in the semiconductor manufacturing process.

Why chemistry...where did this passion come from?

Her father, a physician with a basement chemistry lab, first introduced the 10 year old girl with a restless mind to the science she grew to love. She took it upon herself to learn the lab technique of distillation and purified her father's supply of dirty mercury. After she proudly presented him with the shiny pure liquid, her careful dad began to keep a closer eye on what went on in the basement.

She went on to study chemistry, mathematics and education, first at Washington University in St. Louis, then to complete two Master degrees, one from Stanford, the

second from the University of San Francisco. She is a member of the Santa Clara Valley Section of the American Chemical Society.

Searching for the work she could be passionate about, her research career included many changes from geochemical analysis to chemotherapy drug analysis to explosive development to silicon chip production and finally to a layoff in the 1971 recession. This setback led to a new job at Stanford Research Institute (SRI) where she unsuccessfully tried to interest them in a program developing analytical methods for the fledgling semiconductor industry. After her struggle at SRI she went out on her own and began Balazs Analytical Laboratory in the garage of her home.

"Believe in yourself, take risks and recognize opportunity when it falls in your lap" is the guidance she left with her audience.

Chair's Message, continued from front page

pushed her sister. And it didn't occur to me until just that moment, how I may have been misrepresenting a career that I love, right from the very beginning! Why not "Exciting Science", or "Cool Science" or "Understand This and You'll Be at the Forefront of Science"? So I'm vowing here and now to disavow myself and my family of the iconic image of the mad scientist. Or at least until my girls are a little older.

And when that day comes, I hope to teach them to appreciate chemistry, as that knowledge helps me in so many ways in my everyday life. Chemistry recently helped me decide the best way to protect my bean sprouts from those hungry slugs—should I go with metaldehyde or diatomaceous earth? Silicon dioxide seems harmless enough as a physical barrier. As for those aphids, do I go with distributing ladybugs within my garden, or trust in the pyrethrin and piperonyl butoxide aqueous spray? Regardless of what I choose, it counts as organic gardening because I'm an organic chemist that loves organic chemistry, right?

This summer, we're also taking our girls camping for the first time. You know, the outdoorsy, full-of-bugs-and-dirt-and-fun type of camping. And we'll be bringing along our DEET. Interestingly, a few years ago the can of Off® listed the active ingredient as N,N-diethyl-meta-toluamide. Now the new can simply lists "DEET". Is this because everyone's knowledge of chemistry has become so honed they know to what DEET refers, or are companies deciding that people don't really care about the chemical structures of their products as long as they work? I'm generally an optimist, so I'll go with the former reason.

I hope you're enjoying your summer, and using your chemistry knowledge every day to improve your life. Log on and tell me about it at Facebook...search for **Santa Clara Valley ACS** and click on "Like" to have the discussions stream directly to you.

Welcome to the Santa Clara Valley Section of ACS

Each month the section receives a spreadsheet from national ACS with the names of members new to our section. The members are either new to ACS, have transferred in from other areas, or are the newest members -- students. To welcome you to the section and get to know you, the Executive Committee offers new members a free dinner!! To encourage you to attend a monthly section dinner meeting, we would like you to be our guest. When you register, make certain to mention that you are a new member and you and a spouse (or friend) will be our

guests. The dinner meetings are often the 3rd Thursday of the month at a local spot, somewhat convenient to the entire section. If you are unable to attend in the evening, perhaps you would join us for an outreach event, like judging a science fair, participating in the Chemistry Olympiad, or a National Chemistry Week event in October. Then, there is our annual wine tasting and awards picnic in July. The local section is a volunteer organization. Please attend an event, volunteer to help, and get to know your local fellow chemists. Welcome!!

New Members List for June

Todd Becker	Dr. Christopher Hertzler	Ramachandr Radhakrishnan
Mark Edward Berger	Jen Hsin	Dr. Hiroaki Sagawa
Dr. Erik Paul Bierwagen	Dr. Martin Huber	Jacob M. Schekman
Secira Botic	Dr. Michelle Louise James	Benjamin M. Schmiede
Xumin Helen Chen	Thomas K. Le	Xingci Situ
May-Jih Chu	Emerson Lee	Craig B. Stolarczyk
Dr. Benjamin Clark	Marissa Kim Lee	Euclid Sun
Joseph R. Consiglio	Dr. Eric J. Leopold	Dr. Jing Tang
Dr. Mary Dale Cox	Dr. James R. Maxwell	Arun P. Thottumkara
Jason Duquette	Dr. David Meininger	Katherine A. Tyson
Erfan Faridmoayer	Dr. Jennie E. Munster	Dr. Marieke van der Hart
Dr. Ryan John Gilliam	Oliver Oliverio	Kristina A. Vu
Dr. Nolan Griggs	Claudine Ooi	Dr. Julia J. Wang
Pingli He	Brook Porter	Shegn Yin



The 2011 Shirley B. Radding Award Winner

The Santa Clara Valley Section would like to announce Carol A. Duane as the 2011 Radding Award recipient. Carol heads a consulting company, formed



after retiring from the corporate world. She focuses on strategic marketing and business development for technology-based companies and is an expert in developing strategic collaborations, corporate branding and entrepreneurial planning.

She is a second generation chemist, both parents having been chemists, is married to a chemist, and is an avid tennis player, still competing on senior USTA teams. Her daughters turned their skills and talents to other lines of work, but carry on the tradition of volunteering to their professions.

Carol is a champion for chemists as leaders, ACS Divisions and entrepreneurship. Her volunteer service for the ACS has afforded her opportunities, connections and avenues to accomplish efforts that give back to the profession, promote these values, encourage other chemists to succeed and most importantly form lifetime friendships.

Some of the other valuable work she has performed at the ACS include serving as the ACS local section councilor for Northeastern Ohio for more than twenty-five years. She is currently Chair of the ACS Division of Business Development and Management (BMGT). She was an associate on the Committee on Public Relations and Communications and a member of the

Marketing subcommittee for the Leadership Advisory Board. She previously served as Vice Chair of the Committee on Nominations and Elections, and Chair of

the Committee on Committees. In 2010 she was selected a Fellow of the American Chemical Society.

Please join us in congratulating Carol Duane for putting in years of hard work and effort for the ACS and for winning this year's Radding Award.



Science Educators: Win a BUBBLE Grant!

Submission Guidelines

The Santa Clara Valley Section of the American Chemical Society wants to provide elementary and secondary school educators with tools they can use to revitalize science programs. The section is pleased to announce a call for proposals from K-12 science teachers to apply for an inaugural BUBBLE grant of up to \$500 for worthwhile science projects. Grants will be awarded for projects that enhance the teaching of physical, life or earth science. This grant program will consider funding of amounts requested in a proposal, but reserves the right to fund some proposals partially. Budget items may include, but are not limited to scientific equipment, instructional materials, and supplies related to the proposed project.

Project Description

The proposals should total no more than two pages (700 words or less) and should include the following items:

- An explanation of the project and/or specific learning activities
- Targeted student population
- Expected outcome
- Effective evaluation methods to measure achievement
- Grant amount requested (up to \$500)
- Specific use of the funds
- Brief description of the school and how

this grant would be beneficial, including information that demonstrates financial need (200 words or less)

- Contact person for proposal (name, school affiliation, phone, e-mail)

Timeline

The 2011 grant program is now open for applications. The deadline for submission of all proposals is Monday, August 15, 2011. The winners will be announced and contacted by e-mail after Thursday, September 1, 2011.

Proposal Evaluation

A panel of professional scientists who are members of the American Chemical Society will score all applications on the basis of innovative ideas, plans for implementation and financial need.

Grant Terms and Conditions

Schools must be state accredited and have 50 or more students. Only one application per school is allowed. The grant application must be submitted by an employee of the school who is 18 years of age or older. The winners are expected to submit a summary report for dissemination.

All applications must be submitted electronically in either a Word or Adobe PDF file and sent by e-mail to BUBBLE_Grant@scvacs.org.



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The Chemistry of Fireworks

In making fireworks, the metal salts are put into stars, small clay or dough-like lumps or cubes 3 to 4 cm in diameter. Stars consist of a blend of oxidizing agent, reducing agent, coloring agent (metal salt), and binders. When ignited, the stars produce both sound and light effects. The appearance of a firework is determined by its stars, which are made by hand and carefully packed into cardboard compartments within the firework shell, where they await ignition by a time-delay fuse.

From lift-off to color release, a carefully choreographed sequence of events takes place, producing the desired effect. The power needed to lift each firework into the air is provided by the highly exothermic combustion of black powder, a slow-burning combination of 75% potassium nitrate, 15% charcoal, and 10% sulfur. Said to have first been used in China about 1000 years ago, the recipe for black (or coal) powder has undergone little change since then. The key to fireworks' success is to trap the heat and gas in the bottom of the shell, which is positioned in a

launch tube or mortar, until the trapped gas pressure builds to such a force that, when it escapes, it hurls the firework high into the air.

A firework is ignited by lighting the main fuse. That simultaneously starts both the fast action fuse, which quickly carries the flame down to the lift charge, and the time delay fuse, which continues to burn upward toward the cardboard compartments containing the stars, even as the firework is hurtling skyward.

The black powder lift-charge is calculated to exhaust itself precisely when the slow-burning, time-delay fuse reaches the first compartment packed with light-producing stars and black powder. This happens when the firework is at the very apex of its upward flight. Simultaneously the fuse sets off sound-producing explosives and detonates the stars, initiating color emission. If the timing of the fuses is off, however, the firework may detonate early, too close to the ground, or late, when the firework is falling back to earth.

The sights and sounds of each explosion are the result of several chemical reactions –

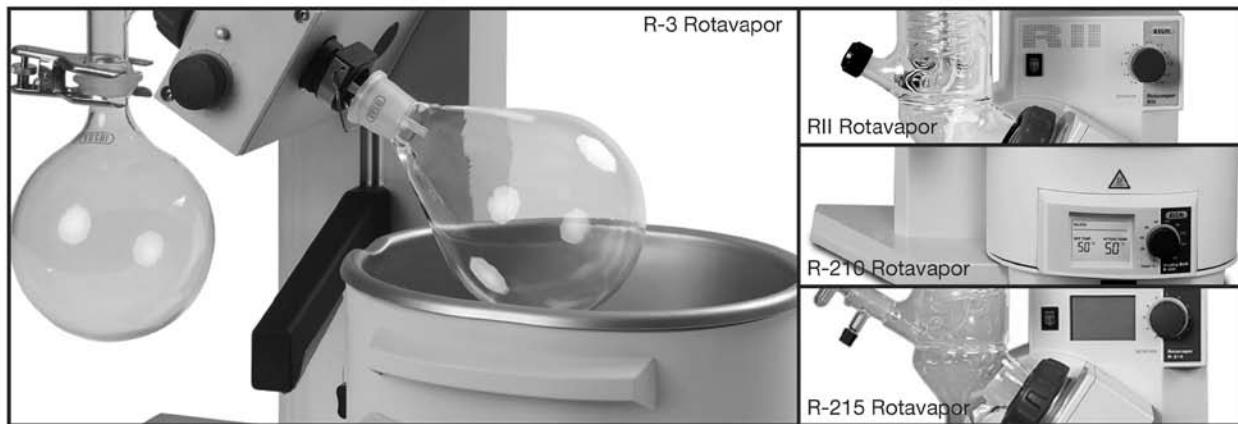
oxidations and reductions – taking place within the firework as it ascends into the sky. Oxidizers produce the oxygen gas required to burn the mixture of reducing agents and to excite the atoms of the light-emitting compounds. Various oxidizers are used in both the black powder and the stars. The most commonly used oxidizers are nitrates, chlorates, and perchlorates. The reducing agents, sulfur and carbon, combine with the oxygen from the oxidizers to produce the energy of the explosion.

The oxygen released by nitrates, chlorates, and perchlorates in the star compartments immediately combines with the reducing agents to produce hot, rapidly expanding gases. The most common reducing agents are sulfur and carbon (charcoal) which react with oxygen to produce sulfur dioxide and carbon dioxide respectively.

The reactions that produce these gases also release a great deal of heat energy, so not only are the gases produced rapidly, they are hot and rapidly expanding gases. This adds to the explosive force of the reaction.

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Grace Baysinger First Recipient of the Wiggins-Roth Award

"The Special Library Association (SLA) Chemistry Division is delighted to announce that Grace Baysinger is the first recipient of the Wiggins-Roth Award for Outstanding Service. The Wiggins-Roth Award recognizes outstanding contributions to the field of chemical information, and is named in honor of Gary Wiggins and Dana Roth.

Grace will receive a \$1,000 honorarium and certificate of achievement from the SLA Chemistry Division. The 2011 Wiggins-Roth Award honorarium is generously sponsored by Elsevier/Reaxys.

Grace is currently the head librarian at the Swain Library of Chemistry and Chemical Engineering at Stanford University. She began her career as a chemistry librarian in 1985, as the head of the University of Michigan Chemistry Library.

Grace is known for her bright outlook, well thought out opinions, and significant contributions to academic libraries, chemical information, and chemical publishing. Throughout her career, Grace has developed significant contributions to chemical information reference. These include: web guides, tutorials, slides, and other materials. She has generously shared these materials with the larger community of chemical information professionals. The entire chemical information community has benefitted from Grace's effectiveness in making the case for changes and improvements in chemistry-related databases, software, and printed products.

Grace's contributions also include extensive service to the American Chemical Society (ACS) including significant roles in the Chemical Information Division (CINF),

National Chemistry Week, Chemists Celebrate Earth Day, and major ACS Committees including the ACS Joint Board-Council Committee on Chemical Abstracts Service (CCAS), Chair of the ACS Joint-Board Council Committee on Publications (JBCCP) from 2005-2007 (member 2001-2009), and Chair of the Copyright Subcommittee from 2005-2009 (member 2001-2009). Grace was the first librarian to be appointed Chair of the JBCCP. She was awarded the Stanford University Marshall D. O'Neill Award in 1996, and the ACS CINF Meritorious Service Award in 2004.

Grace is one of only two U.S. librarians currently serving on the Editorial Board of XCITR (Explore Chemical Information Teaching Resources). Grace was nominated for this award by Gary Wiggins and Dana Roth.

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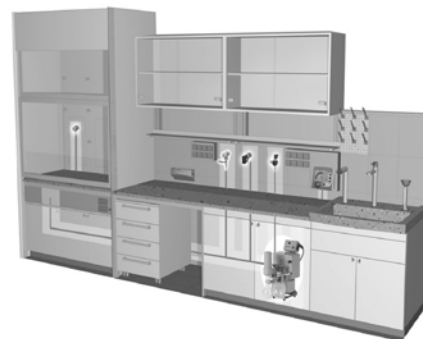
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Highlights of the May Dinner Meeting with Dr. Joanna Wysocka

Photos Courtesy of Lois Durham



Joanne Wysocka and Abby Kennedy



Joanne Wysocka



Carol Mosher and Ean Warren



Fatima Sanem Kocak and Jim McClure



Abby Kennedy



Dick Silva and Mary Jo Dilger



John Perumattam and Harry Ungar



Sally and Howard Peters



James and Michelle Trbovich



Martin Packard



Joanne Wysocka

CHEMPLOYMENT ABSTRACTS JULY 2011

For a complete list of current abstracts, please visit: www.scvacs.org/Local_Folder/abstract.htm

CHEMPLOYMENT ABSTRACT 3961

Position Title: Part-time Lecturer - Biophysical Chemistry

Job Description: Planning and teaching one section of Chemistry 150 (Biophysical Chemistry); Consulting with tenure-stream faculty regarding course content; Fulfilling all responsibilities associated with assigned courses, including Conducting all assigned class meetings and individual conferences with students; Holding at least three weekly office hours on campus; Submitting grades by the assigned deadline and in accordance with departmental policies. Visit <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

QUALIFICATIONS DESIRED:

Education: Ph.D. in chemistry or biochemistry.

Experience: Prior experience teaching physical chemistry at the undergraduate level is preferred, and experience teaching at SCU is advantageous.

LOCATION, SALARY, EMPLOYER:

Job Location: Santa Clara, CA

Salary: \$5,500 course

Employer: The Department of Chemistry & Biochemistry at Santa Clara University, a Jesuit, Catholic university with an ACS-approved undergraduate program. For more information, visit www.scu.edu/cas/chemistry

Application Instructions: Submit the following information to Dr. Gilbert at jjgilbert@scu.edu.

1. A curriculum vitae. 2. A statement describing applicant's experience or interest in working with people of diverse cultures and identities. 3. Copies of undergraduate and graduate transcripts. 4. Two letters of recommendation.

CHEMPLOYMENT ABSTRACT 3962

Position Title: Pharmaceutical Formulation and Process Scientist

Job Description: Bend Research is seeking an experienced Pharmaceutical Scientist to perform research and development on pharmaceutical formulation, process-development, and scale-up projects. Technology transfer and associated support of manufacturing in a clinical cGMP environment will be required as projects advance.

QUALIFICATIONS DESIRED:

Education: B.S., M.S. or Ph.D. - Pharmaceutics or Engineering

Experience: 7 to 15 years of hands-on experience in immediate-release and controlled-release solid-dosage-form formulation, process development, and scale-up. Strong understanding of unit operations, fundamental drug-delivery and process theories, physical chemistry, diffusion, oral absorption, biopharmaceutics, and pharmacokinetics is required.

LOCATION, SALARY, EMPLOYER:

Job Location: Bend (population 80,000) in Central Oregon

Salary: DOE

Employer: Bend Research is a growing, multidisciplinary contract research, development and manufacturing company specializing in improving health. Bend Research is the industry leader in difficult formulations.

Application Instructions: Please email resume to: hr@bendres.com

CHEMPLOYMENT ABSTRACT 3963

Position Title: Senior Scientific Manager, Analytical Chemistry

Job Description: The candidate will be responsible for supporting drug discovery and drug development projects in oncology, immunology, and neurology. The head of analytical chemistry is will set strategic and scientific directions for discovery analytical chemistry and would be a member of the chemistry senior staff and chemistry executive leadership team. The position reports directly to the head of the Discovery Chemistry Department.

QUALIFICATIONS DESIRED:

Education: Applicants should have a PhD in Analytical Chemistry

Experience: The candidate must have at least ten years of experience in Drug Discovery Chemistry. The candidate must have a successful and significant managerial record of at least five years, preferably including the management of PhD-level scientists, and the demonstrated ability to motivate others and maintain staff enthusiasm.

LOCATION, SALARY, EMPLOYER:

Job Location: South San Francisco, CA

Employer: We're passionate and rigorous about our science. For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using innovative science to develop breakthrough medicines that improve the lives of people with serious or life-threatening diseases.

Application Instructions: Join us as we continue to tackle medicine's most challenging problems and live a life inspired. To apply for this job, visit <https://roche.taleo.net/careersection/test/jobapply.ftl?lang=en&job=00376951&src=JB-12940>.

CHEMPLOYMENT ABSTRACT 3964

Position Title: Scientist/Senior Scientist - Process Chemistry

Job Description: The Scientist/Senior Scientist is responsible for developing IND enabling chemistry in support of FIM and phase I/II studies. Duties also include early phase production routes appropriate for the kilogram scale as well as mid-phase processes with a line-of-sight towards eventual manufacturing processes. A major part of the role of the incumbent is to maintain a high level scientific profile both internally and externally.

QUALIFICATIONS DESIRED:

Education: This position requires a PhD and/or postdoctoral

Experience: The candidate must have one to five years of industry experience and an outstanding record of innovation and success in multiple projects over the course of their graduate/post-doctoral/industrial career with a sustained publication record. Candidates with over nine years of experience and significant industry accomplishments in terms of marketed products/industrial innovation will be considered for the Senior Scientist role.

LOCATION, SALARY, EMPLOYER:

Job Location: South San Francisco, CA

Employer: We're passionate and rigorous about our science. For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using innovative science to develop breakthrough medicines that improve the lives of people with serious or life-threatening diseases.

Application Instructions: Join us as we continue to tackle medicine's most challenging problems and live a life inspired. To apply for this job, visit <https://roche.taleo.net/careersection/test/jobapply.ftl?lang=en&job=00376880&src=JB-11480>.

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FUTURE MEETINGS

- Jul 9** Annual Family Picnic, Awards Ceremony and IYC Treasure Hunt
Department of Chemistry
Stanford University
- Jul 13-15** Rheology Short Course
Golden Gate Polymer Forum
Special Event
Michaels at Shoreline
Mountain View, CA
www.ggpf.org
- Jul 18-20** Organic Microelectronics and Optoelectronics Workshop
San Francisco, CA
<http://acswebcontent.acs.org/organicmicroelectronic>
- Aug 28-Sep 1** Fall National Meeting and Exposition
Denver, CO
- Nov 10-12** Western Regional Meeting (WRM 2011)
Pasadena, CA
www.wrmacs.org/index.html