

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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Student Awards Silicon Valley Science and Engineering Fair (Synopsis Championship)

By Abby Kennedy and Howard Peters

The Synopsis Championship judging for ACS Santa Clara Valley Local Section took place on March 9, 2011 at the San Jose Convention Center. The awards presentation was held at California's Great America in Santa Clara on Sunday, April 3. All students attending, including the awardees, were provided with complimentary entrance tickets for a long day of fun at the park. We would like to thank Great America for providing this venue and opportunity for the awards ceremony.

SCV Chair Dr. Abby Kennedy made the following awards:

1st Place Award - \$500

- Kartiga Selvaganesan and Ilakya Palanisamy
"The Effects of Gold Nanoparticles on the Triggered Release of Antibiotics from Liposomes Used in Drug Delivery Systems"
Teacher: Amanda Alonzo
Lynbrook High School

2nd Place Award - \$200

- Nisha Parmeshwar
"A Study of the Link Between Leucine at Position 374 of the MATP Protein and



Kartiga Selvaganesan, Ilakya Palanisamy and Abby Kennedy

*Hypopigmentation in Humans"*Teacher: Belinda Schmahl
Schmahl Science Workshop**3rd Place Awards** - \$100 each

- Shreya A. Nathan
"Maximizing Device Efficiency and Stability in Organic P3HT:PCBOD-Based Photovoltaic Cells"
Teacher: Richard Barber
Harker School - High School Campus
- Vishwaesh Rajiv
"An Investigation of the Effects of Silencing HIF-1 in C.elegans to Study Hypoxic Stress Survival"
Teacher: Belinda Schmahl
Schmahl Science Workshop

Chair's Message

I'm going to let you in on a little secret. Psssst! Being Chair of the Section and Councilor is FUN! I know what you're thinking; it's meeting-planning, newsletter-writing, agenda-creating. Yes, those are all fun activities if you're a Type A person like me, but what I'm talking about here is the more ethereal act of representing the Santa Clara



Valley Section. Let me make my case with a few examples.

Example 1.0: I recently had the honor of attending the Synopsis Championship award presentation at California's Great America. With pride, I announced the six high school winners of our SCV-ACS awards this year. What fun it was to hear about these incredible high school science projects, and to meet these bright, budding scientists. They were thankful and accepted their awards with humility and excitement

continued on next page



Vishwaesh Rajiv, Keshha Khare and Abby Kennedy

continued on next page

Student Awards, continued from front page

- Kesha Khare

"A Novel Method Using Chemically Engineered CYP101 Enzyme and Light to Hydroxylate Camphor"

Teacher: Amanda Alonzo

Lynbrook High School

The SCV judging group was also invited to judge for the women chemists' sorority, Iota Sigma Pi. Dr. Susan Oldham-Fritts made the following presentation:

Promethium Award of Iota Sigma Pi: Book and Certificate

- Samika Prakash Shenoy

"A Spice a Day Keeps the Doctor Away: Antimicrobial Activity of Spices"

Teacher: Anuradha Murthy, Carden

Academy of Santa Clara

IMPORTANT: Volunteer judges in all categories are still needed for:

The California State Science Fair, which will be held in Los Angeles on May 2-3, 2011. See www.usc.edu/CSSF/

The INTEL International Science and Engineering Fair (the largest and most visible science fair in the world), which will be held in Los Angeles from May 8-13, 2011. Volunteers and judges are still needed for May 11 and 12.

See www.societyscience.org/intelise2011.

Chair's Message, continued from front page

and meeting them gives me hope that the US will indeed remain a technological leader in the 21st century.

Example 1.1: At the recent National Historic Chemical Landmark Designation of the A-60 NMR at Agilent Technologies, I had the privilege of standing in front of 250 of my chemistry peers to celebrate the advent of early NMR. When I looked out at the audience, I saw faces filled with remembrance, pride and happiness about being included in the celebration. How fun it was for me to be a part of this celebration, and to meet NMR gurus that have been shimmering since before I was born--who drove the science forward to what it is today.

Example 1.2: At the recent National meeting in Anaheim, on my last day there after a productive Council meeting, I stopped at a Disney store to buy some Mickey Mouse ears for my daughters. The store employee asked if I was there for a special occasion, and our conversation continued like this:

Me: Yes, a conference.

Reminder

May Dinner Meeting

Reminder

Stem Cells, Enhancers and Emergence of Epigenomes in Development

Joanna Wysocka, Ph.D.

Abstract

Less than 2% of the human genome encodes protein coding genes. But many trait-specific and disease-specific mutations seem to map away from such coding sequences. This paradox is partially resolved by the observation that many of the noncoding sequences are involved in regulation of when and where in the developing organism genes are to be turned on and off. One class of such regulatory sequences is called enhancers, since they have a property to greatly enhance gene expression. Genomic DNA in the cells is physically organized in the form of chromatin, which consists of DNA wrapped around histone proteins. Specific combinations of chemical modifications of histones form a basis of epigenetic marking system, which helps to organize the genome into functional domains, some of which are active, while others are silenced. We have recently discov-



ered that in human embryonic stem cells two different epigenetic signatures are associated with, and specifically distinguish, two classes of enhancer elements. One signature marks enhancers that are actively turned on in embryonic stem cells, and another marks a

class of enhancers that we dubbed "poised enhancers", which are not active, but are kept in a state of anticipation that allows them to become rapidly activated when stem cells undergo a decision to differentiate. I will discuss this work as well as its implications for stem cell biology and regenerative medicine.

May Dinner Meeting

Date: Thursday, May 19, 2011

Time: 6:00 Networking
7:00 Dinner
8:00 Presentation

Location: Ming's Chinese Restaurant
1700 Embarcadero Road
Palo Alto, CA 94303
www.mings.com

Speaker: Dr. Joanna Wysocka
Stanford University
Stem Cells, Enhancers and
Emergence of Epigenomes
in Development

Cost: \$28.00
Menu of Family-Style Dining:
Chicken Salad, Hot & Sour Soup,
Ming's Special Beef, Prawns with
Walnuts, Vegetarian Eggplant,
Garlic string beans, Vegetarian
fried rice, tea and wine

Reservations: www.scvacs.org
Sally Peters 650-812-4994

Reservations MUST be made by Sunday, May 15th, stating your name, address, company affiliation, number of people in party. Watch the web site for more information. If you are unable to honor your reservation and do not cancel by Tuesday, May 17th, you will be invoiced following the dinner meeting.

Storekeeper: Oh, are you a chemist?

Me: Yes! Did you meet some other chemists this week?

Storekeeper: Yes, in fact, one girl asked for her Mickey Mouse ears to be embroidered with some element, something with an M, and a B.

Me: Molybdenum?

Storekeeper: Yes! That's it! Can you spell it for me?

Me: M-o-l-y-b-d-e-n-u-m

Storekeeper: I never even heard of that element. That's so cool!

While attending the ACS meeting, whether it was choosing the next candidates for President of the ACS, hearing about a fellow chemist that sparked some elemental interest, or choosing the coolest element for my own mouse ears, it was all FUN! And I thank you, SCV ACS members, for making it possible for me to have all this fun. "Don't bogart the fun", you say? Then step forward, volunteer, and join in. If you're not sure exactly how, email me at akennedycali2007@yahoo.com and I'll share the fun!

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 need 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

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 April

| | | |
|---------------------------|----------------------------|---------------------------|
| Victor Acevedo | Dr. Gregory W. Faris | Amanda T. Martinez |
| Daisy Aguilar | Elena Sophia Favre | Dr. A C. Matin |
| Tsutomu Akiyama | David Grauer | Lindsey Elizabeth McQuade |
| David Alcaraz | Dr. Lawrence Greenfield | Dr. Amit Mehta |
| Anthony Lucas Appleton | Kieu Ha | Chi K. Nguyen |
| Dr. Paul Erskine Boardman | Cynthia M. Hahm | Du D. Nguyen |
| Dr. Ralph Brandenberger | Sarah M. Hayes | Minh-Trang Pham |
| Christopher A. Bravo | Ana Hernandez | Olivia Sanchez |
| Miss Kristine Nicole Bray | Dr. Keith C. Hester | Dr. Sheerin Khatib |
| Beatriz Camacho | Andrew T. Higgs | Shahidi-Latham |
| Dr. Mark W. Canales | Christopher Hojjatnia-Borg | Vikas K. Sharma |
| Ruby Chang | Phat Huynh | Antonie R. Siler |
| Garima Chaudhary | Xiongwu Kang | Kathleen Paige Sokolowsky |
| Xianwen Chen | Mihalis Kariolis | Egwin Timmy |
| Christopher Connelly | Dr. Hee Soo Kim | Len Kim To |
| Leslie Cruz | Katie King | John D. Tran |
| Dr. Klaus Joachim Dahl | Hoa Le | Dr. Xiaoyan Tu |
| Justin David Dancer | Dr. Wenguang Li | Dr. Louise Wallace |
| Bryce W. Davis | Bruce Liscomb | Jinhua Wang |
| Dr. Paola Di Lello | Dr. Bee Ting Low | Christopher Williams |
| Dr. Osigwe Esue | Jason Lutes | Dylan S. Wright |
| Lei Fang | Dr. Fedri J. Marrugo | Jocelyn Zeledon |

- 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.

Annual Santa Clara Valley Section Picnic

Coming up on July 9th will be our exciting summer wine tasting, picnic and awards presentation at Stanford University. The event will include Wine Tasting and BBQ dinner from Armadillo Willy's. The wine tasting will focus on effect of soil and temperature on the growing of the grapes and wines. The wines we will be tasting are Pinot Noir and Chardonnay. Look for the reservation form in the June newsletter and on the section's website. Remember, this is the one meeting where you have to send a payment with your reservation. The cost this year will be: \$17 for adults, \$5 for kids 4-12, and kids under 4 free. Reservations and payments must be received by Wednesday, July 6th.

ACS Honors Development of NMR Instrument as a National Historic Chemical Landmark in Santa Clara Ceremony

The workhorse technology that revolutionized how scientists and physicians do everything from synthesize new medicines, create polymers essential to computer technology, and make early diagnoses of cancers has received its due as a National Historical Chemical Landmark.

The American Chemical Society honored the development of the Varian A-60 nuclear magnetic resonance (NMR) spectrometer as a National Historic Chemical Landmark during a ceremony on April 8 at Agilent Technologies, Inc., in Santa Clara.

"NMR was a game-changing technology that allowed scientists a rapid and accurate way to assess the molecular structures of compounds, information that is essential if you are creating new medicines, plastics, even stronger metal alloys," said Nancy B. Jackson, Ph.D., ACS President. "Truly, NMR deserves Landmark recognition as it speeded up chemical discovery by orders of magnitude."

NMR has also allowed scientists a whole new world view into how large organic molecules, such as proteins and enzymes, behave. The structures of molecules aren't static; they fluctuate, which is important to understand as scientists develop cures for diseases.

The most well-known application of NMR has been in developing the life-saving medical diagnostic tool known as MRI, (magnetic resonance imaging), which provides for early detection of conditions such as strokes, multiple sclerosis and cancer. It was Paul Lauterbur, Ph.D., a Stony Brook University chemistry professor, who employed the NMR technique (using an A-60) to create three-dimensional images that could depict, he predicted, malignant tumors. MRI is now a staple of medical diagnostics. The ACS designated the discovery of MRI as a National Historic Chemical Landmark in a



International Year of
CHEMISTRY
2011

separate ceremony on March 11, 2011, at Stony Brook University in Stony Brook, N.Y.

On April 8, Abby Kennedy, Ph.D., Chair of the Santa Clara Valley local section of the ACS, presented a plaque on behalf of the ACS honoring the development of the Varian A-60 to Nick Roelofs, Ph.D., president, Agilent Life Sciences Group.

"It is a great honor for the Varian A-60 spectrometer to be designated as a National Historic Chemical Landmark," said Roelofs. "Innovation is the spark that drives everything we do at Agilent and ultimately creates the products and solutions that enable our customers to advance research and discovery."

In 1948, Russell and Sigurd Varian founded Varian Associates (now part of Agilent Technologies, Inc.) to manufacture scientific instruments. Varian Associates was among the first technology companies to settle in what would become Silicon Valley in Northern California, along with Hewlett-Packard, predecessor to Agilent Technologies. Russell Varian held a long association with nearby Stanford University, and the proximity provided, as a company history put it, "the benefits of interchange with the various scientific programs in progress at the University."

One of those benefits proved to be a relationship the company established with Felix Bloch, a physics professor who had headed the Stanford team that — along with a group at Harvard — first detected NMR signals in 1945. Although physicists first observed the phenomenon, chemists soon realized that NMR spectroscopy allowed them to perform non-destructive chemical analyses of samples to determine molecular identity and structure much faster and more simply than before.

Early NMR spectrometers were cumbersome instruments. But Varian Associates, capitalizing on its Stanford connection, acquired the patent rights from Bloch to produce NMR spectrometers from Bloch. The eventual result was the A-60, which became the instrument of choice in chemical laboratories because it was compact, reliable, stable, afford-



Abby Kennedy and Nick Roelofs

able and easy to use. A generation of chemists was trained to analyze samples on the Varian A-60 and used the instrument in a wide range of scientific advancements.

The ACS established the National Historic Chemical Landmarks program in 1992 to recognize seminal historic events in chemistry and to increase awareness of the contributions of chemistry to the well-being of society. Other events recognized through this program have included the world's first synthetic plastic, the discovery of penicillin, the development of Tide laundry detergent, and the work of historical figures such as Joseph Priestley and George Washington Carver. More information about the Landmarks program is available at www.acs.org/landmarks.

The designation of Varian A-60 as a National Historic Chemical Landmark took place during the Agilent Users' Meeting before the 52nd Experimental Nuclear Magnetic Resonance Conference. For more information on new developments in NMR technology, visit the Agilent Technologies Newsroom.



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Councilor's Report 241st ACS National Meeting in Anaheim, CA

March 27-31, 2011

All eight councilors from the Santa Clara Valley section attended the recent national meeting in Anaheim. The weather was not your typical southern California sunny, so all the attendees were very happy when the sun finally came out in full on Tuesday!

As of March 30, 2011, the meeting had attracted 14,047 registrants as follows: Regular attendees, 7,336; Students, 4,682; Exhibitors, 1,097; Exposition only, 599; and Guests, 333. As I understand, this was the highest number of registered students at a national meeting – ever! While we are talking about numbers, the official membership number for 2011 was reported as 163,111!

On Wednesday, the council voted on candidates for President-elect for 2012. Four nominees were narrowed down to 2 candidates. The Council selected Dennis Chamot and Marinda Li Wu as candidates for 2012 President-Elect. The full membership will vote for the next president in early October. On that ballot we

will also vote for our district 6 (western region) councilor, choosing between our own Bonnie Charpentier and Carlos Gutierrez from Los Angeles. There is also the possibility of a petition candidate in both of those elections.

In spite of the economic challenges faced in 2010, the Society's operating performance held up remarkably well. Total revenue was \$463.7 million, up 0.8% from 2009, and \$2.4 million 0.5% higher than the 2010 budget. The Net from Operations was \$23.8 million, or \$11.9 million favorable to budget. This resulted largely from cost containment initiatives and lower-than-budgeted salaries and fringe benefits. The Council voted to set the member dues for 2012 at the fully escalated rate of \$148. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Unemployment and Career Services were items being discussed in technical sessions, hallways, exhibition, receptions, and at the

career fair. More than 30 career workshops were held at this meeting. There were 39 employers looking to hire for 182 positions. Unfortunately there were 795 chemists interviewing for these spots. For members unable to attend a national meeting, there will be a virtual career fair in conjunction with the Fall Denver meeting in August. Go to www.acs.org/vcf next month for more information.

Ean Warren and Sally Peters attended an organizational meeting of the Western Regional Meeting steering committee Wednesday afternoon. Thirteen sections from Southern Nevada to San Diego were represented. New officers for this region were elected and regional meetings were discussed. WRM2011 (Western Regional Meeting) will be sponsored by the Southern California section and will be held in Pasadena, November 10-12. The information on the website www.wrmacs.org is growing each day. Our section (Santa Clara Valley section) and our neighboring California section are scheduled to host WRM in early 2013. Watch the newsletter next year for more information!

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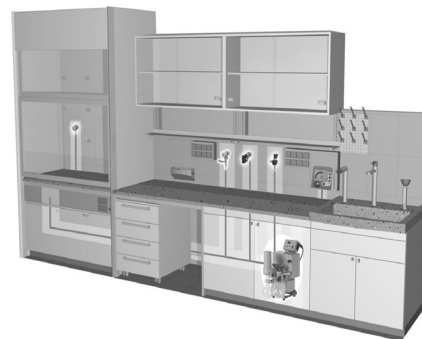
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Mother's Day Bath Salts

In honor of Mother's Day, here are a few things that you can either make for your mothers or help your children make for you. Enjoy, and Happy Mother's Day to all of the mothers out there.

What You Need:

- 2 cups Epsom Salts
- 1 cup Sea Salt or Rock Salt
- 1/4 tsp Glycerin
- Food Colors
- Essential Oils or Perfume
- Jars with Lids/Stoppers

Here's How:

1. Mix salts together in a bowl.
2. Stir in remaining ingredients. Generally a drop of two of fragrance is sufficient. Use ingredients containing water with care (color, certain fragrances), since too much water will dissolve salt.

3. Spoon salts into the jars and seal them. Decorative labels listing ingredients are nice!

Tips:

1. Make certain jars are absolutely dry. Salts absorb moisture, so this project will work better in low humidity.
2. Kitchen fragrances work well. Try extracts of vanilla, lemon, orange, cinnamon, or mint.
3. Not all essential oils are appropriate for bathing! Some suggestions include: lavender, rose geranium, rosemary, or jojoba.
4. Colors or fragrances may be omitted, if desired, for persons with chemical sensitivities.
5. Some essential oils are naturally colored (e.g., chamomile is blue).

The 2013 Western Region Meeting

The Santa Clara Valley and California Local Sections will co-host the Western Region Meeting early in 2013. Both Local Section Executive Committees feel 2013 will be a perfect time to have a meeting since all three ACS National Meetings will be east of the Mississippi from Fall 2012 to Fall 2013. The meeting is in its early planning stages. So early, we're asking for volunteers to help organize the event. If you're available, organized, and interested in working with others to create a high-quality program, please consider volunteering for this position. For more information, contact Abby Kennedy (akennedycali2007@yahoo.com) or Ean Warren (ewarren@scvac.org).

Mother's Day Fizzy Bath Bomb

What You Need:

- 1 cup cornstarch
- 1 cup citric acid
- 2 cups baking soda
- 1/2 cup Epsom salt
- 1/2 cup sea salt
- 2 tsp. water (I use distilled)
- 1/2 tsp. borax
- 1-2 tsp. essential or fragrance oil
- 2 tsp. of a light oil like jojoba, grape seed, fractionated coconut, or rice bran
- Optional: a few drops of a soap safe dye colorant (Yes, you can use food coloring, but, if you can get real soap colorant, you'll use less and it will not fade as quickly.)
- Mixing Bowl
- Waxed Paper
- Small Cup or Bowl

Here's How:

1. Mix all dry ingredients (citric acid, cornstarch, baking soda) in the bowl.
2. In a different bowl or a small cup, mix the vegetable oil, fragrance, and coloring together.

3. Slowly incorporate the oil mixture into the dry ingredients. Mix well.
4. Place 1" balls of the mixture on waxed paper. They will be semi-hard within 2-3 hours, but allow 24-48 for them to fully dry before storing them.
5. Store bath balls in a sealed container, away from moisture.
6. Add a few to the bath and enjoy! For gift giving, the balls may be placed in individual candy cups.

Tips:

1. Either fragrance and/or coloring are optional.

2. Suggested vegetable oils include coconut oil, avocado oil, apricot kernel oil, sweet almond oil, or olive oil, although any emollient oil is good!
3. Use small molds to make three-dimensional fizzy bath shapes.
4. Other than the 2:1 ratio of baking soda to citric acid, you can vary your ingredients quite a bit. You can substitute Dead Sea salts for a portion (or all) of the Epsom or sea salt. You can leave out the cornstarch (It gives the water a nice silky feel and is good for your skin) and the fragrance, too.



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Quality in your hands

Join the Women Chemists Committee of the California Section ACS for our Summer Event at Filoli

Saturday June 18, 2011

Located 30 miles south of San Francisco, Filoli is an historic site of the National Trust for Historic Preservation and one of the finest remaining country estates of the early 20th century. Admission to Filoli allows visitors to explore the house, garden, and heirloom orchard located in the hills west of Redwood City. Information at www.filoli.org

The Women Chemists Committee of the California Section ACS invites all mem-



bers of the California and Santa Clara Valley Sections to meet at Filoli. Our visit includes an optional two hour docent-led tour through both the house and gardens followed by lunch at the Café at Filoli.

Meeting Time: 10 am

Admission: \$12 adults, \$5 students, free for children under 4 years old.

Lunch: \$14 at the café for our group to sit together. Box lunches include a hearty sandwich, pasta salad, seasonal fruit, cookie and beverage. Sandwich choices are Roast Beef, Turkey, Ham and Swiss, Vegetarian.

Total cost: \$26 for

admission and lunch.

Reservations must be made before June 1 to office@calacs.org or call (510) 351-9922 and indicate if you are staying for lunch. Please make checks out to "California Section ACS".



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CHEMPLOYMENT ABSTRACTS MAY 2011

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

CHEMPLOYMENT ABSTRACT 3959

Position Title: Research Scientist – Analytical Chemistry

Job Description: We are interested in hiring a Research Scientist to support analytical tasks in Quality Control-Analytical Chemistry Department of the Biosciences Division. The position is in support of preclinical development of investigational new drugs for treatment and prevention of cancer, infectious disease, and neurological disorders. Duties may include writing technical reports, communicating results to clients, drafting or revising SOPs, and reviewing GLP or GMP data packages.

QUALIFICATIONS DESIRED:

Education: Ph.D. in pharmaceutical science, chemistry (analytical focus preferred).

Experience: Above listed education and with advanced knowledge and hands-on skills in chromatographic techniques and spectrophotometric techniques to support drug development activities.

LOCATION, SALARY, EMPLOYER:

Job Location: SRI International in Menlo Park, CA www.sri.com; SRI is an equal opportunity employer.

Salary: Based on experience

Employer: SRI International, an independent non-profit organization founded as the Stanford Research Institute in 1946, is a leader in the development of new products for the treatment and diagnosis of disease, primarily in the areas of cancer, infectious disease, neuroscience, and immunology. SRI's Biosciences Division (www.sri.com/biosciences) works in several ways, conducting basic research like an academic institution, performing drug discovery and biologic development like a biotechnology company, and carrying out preclinical development and pharmaceutical services like a contract research organization – from "Idea to IND"[™].

Application Instructions: To see the full description and to apply, please go to our web page www.sri.com/jobs and apply to job number 101001.

CHEMPLOYMENT ABSTRACT 3960

Position Title: Senior Scientist - Medicinal Chemistry

Job Description: The Senior Scientist will have responsibility over small molecule design in the context of multiple therapeutic programs. The individual will be responsible for the ideation of large, diverse, patentable and synthetically accessible compound solution spaces for each project. He/she will work closely with Numerate's engineering team to build and refine predictive models, manage and/or monitor the synthesis of selected compounds and insightfully respond to computational and experimental data.

QUALIFICATIONS DESIRED:

Experience:

- Extensive (10+ years) and productive experience in small molecule drug discovery, including distinguishing contributions to lead identification and optimization culminating in the advancement of candidates into development.
- Truly exceptional creative skills related to the project-specific conception and elaboration of novel compounds and libraries.
- Broad experience in programs directed against different types of drug targets.
- The ability to lead and manage programs, to multi-task and to work and communicate effectively with colleagues, partners, contractors and management.

LOCATION, SALARY, EMPLOYER:

Job Location: San Bruno, CA 94066

Salary: DOE

Employer: Numerate has developed a unique and powerful drug design platform that predictively and rapidly delivers and optimizes novel lead compounds. Our capabilities are applicable to essentially any small molecule drug target and we apply them to expand and advance therapeutic pipelines. We now offer a compelling opportunity for an experienced and accomplished scientist to join us and design drug candidates in a fundamentally new manner and play an important role in the growth of our company.

Application Instructions: Individuals interested in this opportunity are encouraged to submit a resume via email to chemjob@numerate.com. Numerate is an equal opportunity employer and offers attractive compensation including significant equity participation.



SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
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SANTA CLARA VALLEY SECTION

2011 Section Officers

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| Past Chair | Bruce Raby | 408-294-6718 | bruceraby@att.net |
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| Treasurer | Ihab Darwish | 650-594-1654 | darwishis@yahoo.com |

Councilors

| | | | |
|-----------|-----------------------|--------------|---------------------------|
| 2009-2011 | Abby Kennedy | 209-640-2005 | akennedy@exelixis.com |
| 2009-2011 | Howard Peters | 650-854-4614 | peters4pa@sbcglobal.net |
| 2009-2011 | Ean Warren | 650-329-4554 | ewarren@scvacs.org |
| 2010-2012 | Linda Brunauer | 408-554-6947 | lbrunauer@scu.edu |
| 2010-2012 | Sally Peters | 650-812-4994 | Sally.Peters@parc.com |
| 2010-2012 | Peter Rusch | 650-961-8120 | pfrusch@aol.com |
| 2011-2013 | George Lechner | 408-226-7262 | glechner@aol.com |
| 2011-2013 | Herb Silber | 408-924-4954 | hbsilber@science.sjsu.edu |

Alternate Councilors

| | | | |
|-----------|--------------------------|--------------|-----------------------------------|
| 2009-2011 | Ihab Darwish | 650-594-1654 | darwishis@yahoo.com |
| 2009-2011 | David Parker | 408-615-4961 | dparker@santaclaraca.gov |
| 2009-2011 | Bruce Raby | 408-294-6718 | bruceraby@att.net |
| 2010-2012 | Lois Durham | 650-322-3507 | ldurham9398@sbcglobal.net |
| 2010-2012 | Natalie McClure | 650-906-7831 | nmclure@drugregulatoryaffairs.com |
| 2010-2012 | Stephanie Gehling | 408-429-9681 | s_gehling@hotmail.com |
| 2011-2013 | Mark Kent | 408-736-0989 | markkent@yahoo.com |
| 2011-2013 | Harry Ungar | 831-708-2049 | haungar@cruzio.com |

Public Relations

Robert Galemmo 650-866-4702 rgalemmo@aol.com

Newsletter

Editor **Aaron Novack** 510-293-8111 aaronnovack@yahoo.com

ChemPloyment Abstracts

Director **Charles Sullivan** 650-728-7034 cdansullivan@sbcglobal.net

FUTURE MEETINGS

- May 11** Jonathan L. Sessler Distinguished Alumni Lecture Series
Department of Chemistry
Stanford University
www.stanford.edu/dept/chemistry/events/conf/jlsessler/index.html
- May 19** Dr. Joanna Wysocka, Stanford University
Stem Cells, Enhancers and Emergence of Epigenomes in Development
Ming's Chinese Restaurant
Palo Alto, CA 94303
- Jun 19-22** 85th ACS Colloid and Surface Science Symposium
McGill University, Montreal, Quebec
- Jun 21-23** 15th Annual Green Chemistry and Engineering Conference
Washington, DC
<http://acswebcontent.acs.org/gcandel/>
- Jul 9** Annual Wine Tasting Picnic and Awards Dinner
Department of Chemistry
Stanford University