

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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JULY 2010 NEWSLETTER TOPICS

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2010 Shirley B. Radding Award Winner

Dr. Herbert B. Silber

Dr. Herb Silber was born in New York City in 1941. He majored in chemistry at Lehigh University, obtaining a BS in 1962 and a MS in 1964. His Ph.D. degree in inorganic chemistry was from the University of California at Davis in 1967, followed by postdoctoral research at the Royal Institute of Technology (KTH) in Stockholm, Sweden (1967-8) and the University of Maryland College Park (1968-9). Prior to joining San Jose State University as an Associate Professor in 1986, he had taught at the University of Maryland Baltimore County (1969-76) and the University of Texas at San Antonio (1976-86). His major research



interests have been in transition metal chemistry, particularly the lanthanides, studying kinetics, thermodynamics and the effect of solvents on metal ion-ligand systems. He is the principal author of over one hundred publications and for more than thirty years he

was one of the co-editors for the United States Rare Earth Research Conferences. Among his activities was being associate editor for a four-volume chemistry encyclopedia for high school students.

Dr. Silber is a 47-year member of the American Chemical Society, having served as Secretary (1983) and Chair of the San Antonio Section (1985), as well

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Annual Family Picnic and Awards Ceremony

Reminder

The summer event will be our summer wine tasting, picnic and awards presentation on Saturday, July 10th.

Wine Tasting:

The wine tasting will feature wines from the Pelican Ranch Winery of Santa Cruz. Professor Phil Crews of the U.C. Santa Cruz Chemistry Department, owner of the winery, has planned the event. Unfortunately, he has a prior engagement and won't be with us in person, so his assistant wine maker, Brenda Arbsland, will preside.

The tasting will be in two parts. The first tasting will be of Chardonnay wines grown in four different wine regions (appellations) and fermented, cellared and bottled by the Pelican Ranch Winery.

The second part of the tasting will be with other white and red wines from the winery.

The afternoon will also include a catered picnic (which will include Chardonnay and Pinot Noir wines from Pelican Ranch) outside the Mudd chem-

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Chair's Message

I hope you have fun at the annual picnic and enjoy the wine tasting arranged by Floyd Hobbs.

Be sure to talk to some of the 50-65-year members and hear their stories.

Summer has come and it is the time for vacations, outdoor activities, etc. I wish you all safe and joyous journeys to wherever you are going.

Abby Kennedy is planning interesting programs for our meetings this fall; stay tuned for announcements about them.



as Chair (1998) and Treasurer (2005-9) of the Santa Clara Valley (SCV) Section. His service to the SCV Section included work on several committees, Alternate Councilor (1987-9, 1991-3) and Councilor (since 1996). From 1980-85, Dr.

Silber served as the Secretary-Treasurer of the Southwest Region, the only elected officer. His national service with ACS started with his appointment as an Associate (1992) and Full (1993-97) Member of the Committee on Project SEED. He

served as Committee Chair of Project SEED (1995-7) prior to being elected Councilor. He has been a member of the Committee on Meetings and Expositions (2005-7), Committee on Membership Affairs (since 2010), and the Minority Affairs Committee as member and Consultant (1998-2008). He has been extensively involved in the ACS Scholars Program evaluation (1999-2008) and has served as a member of the Scholars selection committee since 1999. He has served on two elective committees: the Committee on Committees (1999-2004) and the Committee on Nominations and Elections (2007-9). He continues to be active in ACS activities.

He is married to Kathleen Silber, an adoption expert and author of books on open adoption. He has a son, Erik, who is an Assistant US Attorney on leave with the Executive Offices in Washington, DC. His daughter, Sarah, is an elementary school teacher with three sons, Drew, Jack and Aiden.

– OOPS! –

In a recent issue of this newsletter, we incorrectly published the deadline for nominations for the Shirley B. Radding Award as May 29, 2010. The correct date is always May 1 of the year of the award. We regret the error.



Annual Picnic, continued from front page

istry building at Stanford, and ceremonies honoring our 50-, 60- and 65-year members and other award winners.

Dinner:

Armadillo Willy's will cater the picnic, as they did last year. The tentative menu will include: smoked barbecued chicken, beef brisket, BBQ beans, spicy coleslaw, corn bread muffins, green salad, wine, beer, soda, water and dessert.

Honored Longtime Members:

50-Year Members

Paul Barkan, Palo Alto
Dr. Don C. De Jongh, Palo Alto
Guy Vincent Ferry, Sunnyvale
Dr. Oleg Jardetzky, Palo Alto
Le Roy F. Johnson, Cupertino
Marius W. Kendall, San Jose
Richard M. Mandle, Palo Alto
David Vernon Myhre, Half Moon Bay
Dr. Robert H. Schwaar, Palo Alto
Michael Sullivan Story, Los Gatos
George Low Tong, Cupertino
Thomas H. Vanden Bosch, Redwood City
Dr. Mary Jane L. R. Wegener, San Jose
Herman H. Weyland, Morgan Hill

60-Year Members

George K. Abel Jr., Los Gatos
Dr. Donald E. Green, Sunnyvale
Dr. Robert F. Landel, Santa Cruz
Daniel Lazare, Palo Alto
Dr. Robert Hood Perry Jr., San Carlos
Dr. Robert J. Prochaska, Carmel Valley

65-Year Members

Thomas F. Anderson, Burlingame
Dr. Saul W. Chaikin, Cupertino
Dr. Marjorie W. Evans, Los Altos Hills
Robert C. Miller, Los Altos
Dr. Carol Mosher, Palo Alto
Phyllis Rokita, Palo Alto
Dr. Carlyle E. Shoemaker, San Jose
Dr. William L. Stanley, Carmel
Dr. Alejandro Zaffaroni, Palo Alto

Location:

The Stanford Chemistry Department.

Time:

4:00 p.m. Wine Tasting
5:30 p.m. Buffet BBQ Dinner

7:00 p.m. Award Ceremony

Directions

From Route 101 (Bayshore Freeway): Take University Avenue west through Palo Alto. It becomes Palm Drive on the Stanford Campus. Turn right on Roth Way and continue to the Chemistry Department. Park in the parking structure on your right. Keck and Mudd chemistry buildings are across Roth Way from the parking structure.

From Route 280: Take the Sand Hill Road exit. Drive east and turn right on Stock Farm Road. Then turn left on Campus Drive West and right on Roth Way. Park in the parking structure immediately on your left. Keck and Mudd chemistry buildings are across Roth Way from the parking structure.

Reservations:

Download and print a reservation form from www.scvacs.org/Local_Folder/din_mtg.html.

Remember, this is the one meeting where you have to send a payment with your reservation. The cost will be the same as it was last year: \$16 for adults, \$5 for kids 4-12, and kids under 4 free. Reservations and payments must be received by Wednesday, July 7th.

Summer Family Event

Sponsored by the WCC of CalACS

How would you like to visit the California Academy of Sciences in San Francisco with other chemists?

Doesn't a family outing at the beginning of the school year sound like a good idea?

See, among many other things, the "Extreme Mammals" exhibit they have, on loan from the American Museum of Natural History!

The Women Chemists Committee of the California Section invites you to join them at 11 a.m. on Saturday, August 28, in Golden Gate Park to explore the Academy

and its unique combination of Planetarium, Aquarium, Natural History and Environmental exhibits.

The group will receive a 15% discount if we have 15 or more visitors. We have to pay in advance to get the group discount. The discounted prices are:

\$21.21 for adults 18-64 years

\$16.96 for Youth, 12-17 years, and Seniors, 65 and above

\$12.71 for children 4-11 years

FREE if you're 3 or less

Continued on next page

Summer Event, continued from previous page

Headsets and "Behind the Scenes" tours are available for additional charges, but they are not needed to enjoy the exhibits.

Three facilities for lunch are on-site, or visitors may bring their own food.

For further information, including driving directions and parking information, go to www.calacademy.org/visit/.

Please pay in advance by sending a check BEFORE Friday, July 9, 2010, pay-

able to "California Section, ACS", to California Section, ACS, 2950 Merced Street, STE 225, San Leandro, CA 94577-5669

Reservations are not confirmed until checks are received.

INTEL, ACS and Other Groups Make Awards at ISEF in San Jose

by Howard Peters

San Jose, the heart of the Silicon Valley, usually best known for its high tech in computers, silicon chips, networks and biotech, took on an intense and talented high school character for the week of May 9-14, 2010, and it rained! (It never rains in sunny San Jose in May.) The INTEL International Science and Engineering Fair (ISEF) 2010 was in town.

ISEF 2010 had as its theme, "Mentoring Global Innovation". Dr. Howard Peters, a former member of the ACS Board of Directors, was active on the ISEF 2010 Board of Directors Host Committee. See www.isef2010sanjose.org. Over 1600 high school students from 60 countries plus their teachers, mentors, observers, judges, and others, descended on the San Jose McEnery Convention Center.

The three top awards for the Intel Young Scientist Award (\$75,000 and \$50,000 scholarships) went to three very talented students:

- **Amy Chyao, 16**, of Richardson, Texas, was awarded first place for her work to develop a photosensitizer for photodynamic therapy (PDT), an emerging cancer treatment that uses light energy to activate a drug that kills cancer cells. Amy received \$75,000 and the Gordon E. Moore Award, given for the first time in honor of the

Intel co-founder and retired chairman and CEO.

- **Kevin Ellis, 18**, of Vancouver, Washington, received \$50,000 from the Intel Foundation. Kevin developed a method to automatically speed up computer programs by analyzing the programs while they are running so that work could be divided across multiple microprocessors.

- **Yale Fan, 19**, of Beaverton Oregon, also received \$50,000 from the Intel Foundation for a project demonstrating the advantages of quantum computing in performing difficult computations.

It was reported that for ISEF2010 in San Jose, between 20 and 30% of the more than 1600 high school exhibitors had filed (or planned to file) patent applications on their projects. In recent years, the number of patent applications has been hovering at about 20%. Amazing...

Dr. Dudley Herschbach, a San Jose native (B.S. at Stanford, Ph.D. at Harvard, Emeritus professor at Harvard, 1986 Nobel Prize in chemistry) has for years been the Chair of the Board of Trustees of Science for Society and for this fair. At age 78 he stepped down from that post in May.

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Mark Kent with a visitor



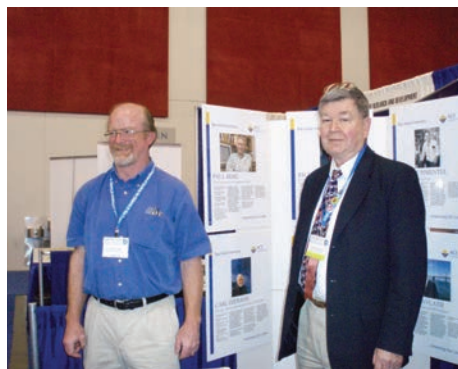
SCV ACS booth



Howard Peters with visitors



Some posters at our booth



Mark Kent and Howard Peters

The ACS, as it has for the past several years, judged chemistry projects across the expanding borders of our science. The ACS and its Board of Directors provided support for this important public outreach with a total of \$10,000 in awards to these talented science and engineering students.

Dr. Steven Colby, a Palo Alto patent attorney and prior ISEF judge, led the ACS judging team, which included Dr. Bruce Raby, the current Santa Clara Valley (SCV) Section Chair; Dr. Jane Frommer and Dr. Steve Boyer, both of IBM; and Dr. Partha Bera, of NASA. Our Section owes this team big time. Difficult decisions were made easier by the camaraderie of this dedicated group of local chemistry volunteers.

The SCV Section information booth was mobbed by entrants, parents, judges, teachers, mentors, and others for handouts related to the ACS, the International Year of Chemistry 2011 (IYC2011) and to chemistry. Student exchange lapel pins were obtained from the International Union of Pure and Applied Chemistry and many brochures about the upcoming IYC2011 event were distributed.

On Thursday, a record-setting attendance of about 10,000 public attendees and bused-in K-12 students viewed the projects, heard science lectures, and saw demonstrations, hand-on experiments and magic shows, and visited vendor booths. Dr. Howard Peters presented his signature "Chocolate, Food of the Gods" to many middle school students.

Below is the published list of ACS winners for ISEF 2010 which can be obtained from their web site: www.scienceforsociety.org.

First Award of \$4,000

Medicinal Applications of Bis (trimethylsilyl) Acetylene in Copper (I) - Catalyzed Azidealkyne "Click" Chemistry
Daniel Alexander Mokhtari, 18, Breck School, Minneapolis, MN

Second Award of \$3,000

An Investigative Study on Pigmented Gallstones: Is Cu (II) - Induced Oxidation of Bilirubin Responsible for Their Formation?
Shamik Mascharak, 16, Santa Cruz High School, Santa Cruz, CA

Third Award of \$2,000

Synthesis and Quantitative Analysis of the Effect of Concentration and pH on the Ion-Exchange Capacity of Metal Polyacrylates Using Copper
Nicholas T. Wilson, 17, Dallastown Area High School, Dallastown, PA

Fourth Award of \$1,000

Mimicking the Lotus Leaf: Employing Natural Processes of Micro- and Nano-texturing to Convert a Hydrophilic Surface into a Hydrophobic one, based on Cassie-Baxter Wetting
Saumil Bandyopadhyay, 14, Maggie L. Walker Governor's School for Government and International Studies, Richmond, VA

Honorable Mention Awards

Lights, Quantum Dots, Action!
Amy Cindy Chyao, 15, Williams High School, Plano, TX
Chemical Analyses of Hazardous Substances and Polycyclic Aromatic Hydrocarbons in the Smoke of Incense Sticks Detected by Gas Chromatography–Mass Spectrometry
Filip Kunc, 18, Gymnázium Ivana Kupca, Hlohovec, Slovakia
Exploring Mpemba Effect
Daniel Michael Kassen, 18, Mayer Lutheran High School, Mayer, MN

Extraction of Natural Carbonaceous Nanomaterials from Soil Sources: Exploration of Properties and Applications
Aritra Chowdhury, 17, South Point High School, Kolkata, West Bengal, India

Recycling of Styrofoam: Application in Retention of Water and Heavy Metal Ions
Amanda De La Rocque Rodrigues, 18, ETEC Getulio Vargas, Sao Paulo, SP, Brasil
Carlos Henrique Leite da Silva, 18, ETEC Getulio Vargas, Sao Paulo, SP, Brasil
Paolo Damas Pulcini, 18, ETEC Getulio Vargas, Sao Paulo, SP, Brasil

Piece de Resistance: The Synthesis of Complex Dimeric Pyrrole-Imidazole Alkaloid Natural Product Derivatives and their Efficacy in Inhibiting and Dispersing Pseudomonas Aeruginosa Biofilms
Justin To, 17, Oak Grove High School, San Jose, CA

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 -- the 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 for June

Dr. Masoud Aryanpour
Phillip A. Benedetti
John T. Brady
Karen Canaan
Mr. William M. Davidson
Dr. Todd R. Elworthy
Dr. Jianwen Feng
Dr. Isabella Graef
Dr. Keith C. Hester
Dr. P Aru Hill
Patrick Michael Jeffries
Ewa J. Kosmowska
Haiqing Lin
Nan Ma
Ke Min
Katherine Near

Sean T. Neville
Mr. Eric Oh
Lisa Onishi
Mary E. Parent
Dr. Chindi Peavey
Mr. Thomas Pillow
Eric Wayne Seppeler
Dr. Vineet R. Shastry
Miss Courtney Vella
Peter Weiss-Penzias
Melanie Yim
Dr. Shu Zhang
Dr. Yibin Zhang
Jia Zhu
Dr. Peter C. Zhu

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CHEMPLOYMENT ABSTRACTS JULY 2010

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

CHEMPLOYMENT ABSTRACT 3951

Position Title: Senior Research Associate

Job Description: SRI International is looking for a Senior Research Associate - Analytical Chemistry to support R&D and cGMP. The Research Associate will be asked to provide analysis of bulk chemicals, active pharmaceutical ingredients, test articles, raw materials, formulations and final drug products; develop and perform HPLC methods; routinely use FT-IR, Karl Fischer, Dissolution Apparatus. The Research Associate will also be asked to provide calibration and maintenance of laboratory equipment; draft or revise SOPs; review GMP data packages; write protocols and reports.

QUALIFICATIONS DESIRED:

Education: BS/MS in chemistry or related discipline.

Experience: 8-10 years experience in pharmaceutical analysis; Experience with GC, NMR and LC/MS a plus. Experience in a cGMP environment is required.

LOCATION, SALARY, EMPLOYER:

Job Location: Menlo Park, CA

Salary: DOE

Employer: SRI International 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 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" (tm).

Application Instructions: Apply via our web page www.sri.com/jobs to job number 100591. SRI is an equal opportunity employer. www.sri.com

CHEMPLOYMENT ABSTRACT 3952

Position Title: ICP-MS Chemist

Job Description: The ICP-MS chemist will develop new and robust methods for analysis of metal contaminants in a host of chemicals and materials used in the semiconductor and associated industries. The chemist will work closely with other scientists and technicians to ensure the work flow is completed with safety and quality of data being of utmost importance.

QUALIFICATIONS DESIRED:

Education: B.S. or M.S. in chemistry or associated science is required.

Experience: Successful 3-5 year laboratory experience with sample preparation, ICP-MS analyses and data interpretation is strongly desired. Experience with analysis of semiconductor chemicals and materials is preferred but not required. The ability to work in an active production laboratory setting is a must. The candidate must have excellent verbal and written communication skills, have initiative and be self-motivated.

LOCATION, SALARY, EMPLOYER:

Job Location: Fremont, California

Salary: Negotiable

Employer: Air Liquide Electronics - Balazs NanoAnalysis, a division of Air Liquide Group (www.airliquide.com), maintains a multi-faceted laboratory that focuses on analyses, contamination characterization and problem-solving for the semiconductor, solar, and other high technology industries.

Application Instructions: Interested applicants should send their resumes to Scott Anderson at scott.anderson@balazs.com

CHEMPLOYMENT ABSTRACT 3953

Position Title: Water Laboratory Manager

Job Description: The water laboratory manager will direct, manage and assist all activities in an ultra-pure water (UPW) laboratory with first priorities being safety and quality of data.

Analyses include metals analysis at part-per-trillion levels via both HR ICP-MS and DRC ICP-MS as well as ion chromatography, silica and other important methodologies critical to UPW systems for the semiconductor and other industries.

The candidates would preferably have prior experience with ultra-pure water analyses and data interpretation and wish to pursue a long-term career as a laboratory manager that focuses on ultra-pure water and associated analyses as they relate to high technology industries.

QUALIFICATIONS DESIRED:

Education: MS or Ph.D. in chemistry is preferred but not mandatory.

Experience: Successful 3-5 year minimum laboratory management experience in a production setting is a must. Knowledge of UPW systems and/or semiconductor chemical analysis is strongly preferred. The candidate must have excellent verbal and written communication skills, have initiative and be self-motivated

LOCATION, SALARY, EMPLOYER:

Job Location: Fremont, California

Salary: Negotiable

Employer: Air Liquide Electronics - Balazs NanoAnalysis, a division of Air Liquide Group (www.airliquide.com), maintains a multi-faceted laboratory that focuses on analyses, contamination characterization and problem-solving for the semiconductor, solar, and other high technology industries

Application Instructions: Interested applicants should send their resumes to Scott Anderson at scott.anderson@balazs.com

CHEMPLOYMENT ABSTRACT 3954

Position Title: Senior Organic Laboratory Chemist

Job Description: The organic laboratory chemist will perform analyses including GC-MS, TD-GC-MS, FTIR, Raman and thermal techniques (TGA, DSC, TMA) as well as other methodologies on a variety of matrices important to the semiconductor and other high technology industries. The chemist will take a lead role in the day-to-day analyses in the lab and maintain sample flow through an active production laboratory. Method development for new materials and unique problems will also play a major role in the day-to-day functions.

QUALIFICATIONS DESIRED:

Education: MS or Ph.D. in chemistry is preferred but not mandatory.

Experience: Successful 3-5 year minimum experience in an organic analysis laboratory with knowledge of sample preparation, instrument maintenance and data interpretation is strongly desired. Experience and knowledge with analysis of semiconductor materials for organic contaminants is preferred but not required. Ability to work successfully in a high-throughput production laboratory setting is a must. The candidate must have excellent verbal and written communication skills, have initiative and be self-motivated.

LOCATION, SALARY, EMPLOYER:

Job Location: Fremont, California

Salary: Negotiable

Employer: Air Liquide Electronics - Balazs NanoAnalysis, a division of Air Liquide Group (www.airliquide.com), maintains a multi-faceted laboratory that focuses on analyses, contamination characterization and problem-solving for the semiconductor, solar, and other high technology industries.

Application Instructions: Interested applicants should send their resumes to Hugh Gotts at hugh.gotts@balazs.com



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AMERICAN CHEMICAL SOCIETY
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<http://www.scvacs.org>

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is published on our web site, sign up at:
<http://www.scvacs.org/newsletter/>

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Secretary	Karl Marhenke	831-688-4959	karlmar@armory.com
Treasurer	Ihab Darwish	650-594-1654	darwishis@yahoo.com

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ChemPloyment Abstracts

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

- Jul 10** Annual Family Picnic and Awards Ceremony
Stanford Chemistry Department
Stanford, CA
www.scvacs.org/Local_Folder/din_mtg.html
- Jul 13-15** SemiconWest 2010
San Francisco, CA
www.semiconwest.org/index.htm
- Jul 18-21** Florida Pesticide Residue Workshop
St. Pete Beach, FL
<http://flworkshop.com>
- Jul 21** BioScience Forum
Paul Hastings
CEO OncoMed Pharmaceuticals
www.biosf.org/programs.htm
- Aug 18** BioScience Forum
Dr. Marc Tessler-Lavigne
Chief Scientific Officer, Genentech
www.biosf.org/programs.htm
- Aug 22-26** Fall 2010 National Meeting
Boston, MA