

# Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 34 No. 1

## JANUARY 2012 NEWSLETTER TOPICS

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## Reminder January Dinner Meeting Reminder The 2011 Harry and Carol Mosher Award Winner

William F. Carroll, Jr. Ph.D.

### *The Best Newsprints and K. M. Reese*

If you're like me, you probably read the beginning and end of Chemical and Engineering News before (and maybe instead of) the stuff in the middle. The back page of C&EN, Newsprints, was the province of Ken Reese for nearly 35 years. His eclectic and wry sense of humor made that section the place many of us turned first.

This talk, which is an extension of a presentation made in the late Professor Jack Stocker's symposium "Whimsy in Chemistry" is a compilation of and commentary on of some of the best and funniest blurbs presented in Newsprints between 1930 and 2000.



### *Biography*

Dr. William F. Carroll, Jr. holds a Ph.D. in Organic Chemistry from Indiana University in Bloomington. He is currently Vice President, Industry Issues, for Occidental Chemical Corporation and also an Adjunct Professor of Chemistry at Indiana.

Bill is a Past President (2005) of the American Chemical Society, and a current member of its Board of Directors. He is a Fellow of the Royal Society

*continued on next page*

## January Dinner Meeting

**Date:** Thursday, January 19, 2012

**Time:** 6:00 Social Hour  
7:00 Dinner  
8:00 Presentation

**Speaker:** Dr. William Carroll  
Former President of the American Chemical Society

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Boulevard  
Santa Clara, CA

**Cost:** \$26.00, Chicken Monterey or Vegetarian Crepes

**Reservations:** [www.scvacs.org](http://www.scvacs.org)  
Sally Peters 650-812-4994

Reservations should be made by January 16th stating your name, address, company/school 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 Wednesday, January 18th, you will be invoiced following the dinner meeting.

## Chair's Message

Happy New Year!  
I have assumed the responsibility for chairing the section in 2012. Abby Kennedy has done an excellent job and, under her leadership, the Santa Clara Valley local section has prospered. I only hope to do as well. Each incoming section chair is asked by National to set goals for the section. My three goals are:



1. To increase involvement in local section activities by more section members. I plan to re-establish and reinvigorate a program committee, a public relations committee and a membership committee.
2. To continue the active chemistry outreach program that the section conducts, including

*continued on next page*

## February Dinner Speaker

On the 16th, Dr. Ripudman Malhotra from SRI International will be our guest speaker. His topic is "A Cubic Mile of Oil". That's over 4 trillion liters. Sounds intriguing! The location and time have not been determined, so please check our web site [www.scvacs.org](http://www.scvacs.org) for further details.

2011 Mosher Award, continued from front page of Chemistry, and chair or member of a number of committees for the National Research Council of the National Academy of Sciences. He is a member of the advisory board for the Tulane University School of Science and Engineering. In 2009, he was chair of the Council of Scientific Society Presidents.

On behalf of OxyChem he has chaired numerous committees for industry associations, including the American Chemistry Council and the Vinyl Institute. He has served on expert groups commissioned by the United Nations Environment Programme, the US Environmental Protection Agency and three states--most recently the California Green Ribbon Science Panel.

Bill holds two patents, and has over sixty publications in the fields of organic electrochemistry, polymer chemistry, combustion chemistry, incineration and plastics recycling.

Bill has received the Henry Hill Award, sponsored by the ACS Division of Professional Relations, the Michael Shea Award from the Division of Chemical Technicians, Distinguished Alumni Awards from both Indiana and DePauw University and the Vinyl Institute's Roy T. Gottesman Leadership Award for lifetime achievement.

And he is now the winner of the Santa Clara Valley Section's highest award, the Harry and Carol Mosher award. This award was established in 1980 by our Section to:

1. Recognize and encourage outstanding work in chemistry,
2. Advance chemistry as a profession, and
3. Recognize service to ACS.

The award is named for the late Dr. Harry S. Mosher of Stanford University, and Dr. Carol W. Mosher of the Stanford Research Institute International, Menlo Park, husband and wife and charter members and long-time supporters of this Section.

The award currently consists of an engraved plaque and a check for \$2000. Bill has very generously decided to donate his stipend back to our Section to support the Community College Teacher Scholar Award, for which he receives our heartfelt thanks.

The first scientists to receive this award were Drs. Harry and Carol Mosher themselves in recognition of the inspiration of their example. The committee noted that the Moshers, including a brother, Dr. William A. Mosher, also a chemist, are outstanding examples of the qualities to be recognized and honored by this award.



Chair's Message, continued from front page

ing the National Chemistry Week activities, the Teacher's Workshop program, the Tech Trek program and Project SEED.

3. To prepare for the 2013 Western Regional Meeting to be jointly hosted by our section and the California section. It has been many years since we last hosted a Western Regional Meeting and this will be an opportunity to showcase the excellent and varied chemistry being conducted in the Bay Area.

I hope that you will be able to participate in these activities. There will be multi-

ple opportunities to volunteer and the tasks can be tailored to any level of involvement. I find volunteering with ACS to be very enriching and satisfying, and you might experience the same feelings if you try.

The first event for the New Year will be the 2012 Harry and Carol Mosher award lecture to be held on January 19 at the Biltmore Hotel in Santa Clara. The honoree is Dr. William Carroll, past President of ACS and current chairman of the Board of Directors. He will give a fun talk based on some of the interesting tales from past issues of Chemistry and Engineering News. I hope to see you there.

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## Local Science Fairs in 2012

Now that the holidays are over, we are starting another important time frame –Science and Engineering Fair season. From January to June there is a time of intense effort of important competitions at the local, regional, state and international levels. There is always a great need for category judges for these exciting science fairs (especially in the areas of botany, biology, biochemistry, chemistry, microbiology, and the behavioral/social sciences). In addition, we have a need for a few interested members for our SCV-ACS sponsored awards for the Santa Clara Valley Science and Engineering Association's fair, the Synopsys Championship.

So, no matter which fair includes your hometown, please volunteer now!

### San Mateo County Science, Math and Technology Fair

**Date:** January 31, 2012

**Location:** Hiller Aviation Museum, San Carlos

**Contact:** Dr. Christi Harter

charter@smcoe.k12.ca.us

(650) 802-5401

[www.usc.edu/CSSF/Fairs/400.html](http://www.usc.edu/CSSF/Fairs/400.html)

### SCIENCEPALOOZA

East Side Union High School District fair, where many of the students are first time science fair participants

**Date:** Saturday, February 11, 2012

**Location:** Santa Clara County Fair Grounds, San Jose

For more information, visit

[www.outreach-foundation.org/judges.html](http://www.outreach-foundation.org/judges.html)

### Monterey County Science and Engineering Fair

Sixth through twelfth grade Monterey County students

**Date:** Saturday, March 3, 2012

**Location:** California State University, Monterey Bay

For more information, visit

[www.montereycountysciencefair.com](http://www.montereycountysciencefair.com)

### San Francisco Bay Area Science Fair - ISEF affiliate

While San Mateo County students are eligible, they will not be able to qualify for the California State Science Fair (CSSF).

**Date:** Wednesday, March 14, 2012

**Location:** San Francisco County Fair Ground Building - Golden Gate Park

**Contact:** Robert Fabini

[sfbasf@gmail.com](mailto:sfbasf@gmail.com)

[www.usc.edu/CSSF/Fairs/300.html](http://www.usc.edu/CSSF/Fairs/300.html)

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# 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 December

Jennifer Albrecht  
Philippe Bergeron  
Peter Bergstrom  
Jeffrey Berry  
Dr. Alexandre Blumstein  
Dr. Rita Blumstein  
Alexander Burns  
Dr. Xiaowu Chen  
Jennifer Chuang  
Ileana Constantinescu  
Terry D. Crawford  
Majemite Dafinone  
Quoc Dang  
Abigail Sloan Devlin  
Brendan R. Dsouza  
Elena Dubikovskaya  
Marc R. Gancayco  
Vanessa J. Gaoiran  
Dr. Felix Gonzalez Lopez  
De Turiso  
Mason Guffey  
Emily J. Hanan  
Dr. Pingjiao Hao  
Michael J. Hayes  
Dr. Robert A. Hess  
Yutao Jiang  
Albert Jo  
Dr. Shihai Kan  
Kuk-Hwan Kim

Diane Kolstad  
Dr. Heike Krupka  
Dr. Jeremy Lackey  
Thu Le  
Dustin M. Ledbetter  
Yan Li  
Elizabeth Lieu  
Michael V. Lim  
Dr. Baiwei Lin  
Joshua E. Little  
Jamie Liu  
Jinrong Liu  
Yanzhou Liu  
Louise Mae R. Lopez  
Becky K. Lu  
Qiang Ma  
Pramit Manna  
Kezia S. Mazon  
Erica R. McKenzie  
Dr. Dustin Lee McMinn  
Dr. Ashley Mynar Piekarski  
Nhi Ngo  
Andrew D. Nguyen  
Angelina N. Nguyen  
Joey Nguyen  
Srinivas Nimmagadda  
Dr. Timothy D. Owens  
Professor Jonathan Payne  
Christina Teresa Petraglia

Roger C. Rich  
Dr. Shaunak Roy  
Erik J. Rueden  
Wes Salameh  
Jared M. Schrader  
Christopher S. Sequeira  
Dr. Anita Sheoran  
Yili Shi  
Lisa Standke  
Patricia H. Tran  
Thuy Hoang Tran  
Kim Hoang H. Truong  
Carlos Valencia  
Jasper Visser  
Dr. Kern von Hungen  
An Tam Vu  
Dr. Chunguang Wang  
Deven Wang  
Hui Wang  
Lan Wang  
Shumei Wang  
Mengling Wong  
Lucian Young  
Rod Zaeni  
Hector A. Zendejas  
Birong Zhang  
Aihe Zhou  
Bahman Zohour

## Election 2011

Our 2011 election ended after the December issue of this newsletter went to press. For a change, we had two contested elections (Councilor and Alternate Councilor). This was mainly due to our loss of a Councilor and an Alternate Councilor seat, ordered by National. Their decision is based upon demographics. Nevertheless, we still only got 312 votes, which is 9.4% of the electorate, and 18 fewer than last year, when all races were uncontested.

As we do every year, we have a new Chair Elect (Peter Rusch). Both the Treasurer (Ihab Darwish) and the Secretary (Karl Marhenke) were re-elected. All three of the Councilors whose terms expired at the end of 2011 ran for re-election; only two could be re-elected, and the winners were Abby Kennedy and Ean Warren. The Alternate Councilor race was in the same situation; we had a resignation, but we also had a NEW CANDIDATE (that sound you hear is the Executive Committee applauding), Lisa Milstein, and she was elected, and David Parker was re-elected.

We thank everyone who voted, and we hope that our electronic election, managed by Vote-Now, was as easy for you as it was for us. The continuing members of the Executive Committee also thank those who voted for the implied vote of confidence in the volunteer work we do for the Section.

The most important requirements for Executive Committee ("ExComm") membership are (1) membership in the Santa Clara Valley Section of the ACS and (2) willingness to serve. If you're interested, you should come to our dinner meetings; most of the current ExComm members attend most of those and showing up is a good way to meet them and get to know them, and they you. Any of us will be glad to describe what being a member of the ExComm involves. Also, visitors are always welcome at our ExComm meetings; the times and places are listed near the bottom of our home page at [www.scvacs.org](http://www.scvacs.org). For some time now we've been meeting at 7:30 p.m. on the first Monday of the month at PARC in Palo Alto, on Coyote Hill Road not far from the Stanford campus. Meetings typically last until 9:30.

Our Nominations and Elections committee puts names on the ballot based upon interest and willingness to serve, or, for incumbents, willingness to continue to serve.

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 MEMBER ACIL

*Election 2011, continued from previous page*

Thus you have to find a way to be active in Section activities and attract the notice of the committee.

Our Section is designated by the national office as "large". However, since the last census period, we have lost membership compared to other Sections, and we now have seven Councilors, and seven Alternate Councilors (through 2011, we had 8 of each). That's fourteen people, and three of the five officers are also either Councilors or Alternate Councilors. So, despite the fact that Section membership is still well over 3000, all we have

been able to do is get 16 people to fill 19 slots! Getting volunteers for ongoing work isn't easy!

The only viable way to be elected is to get your name listed on the ballot. The national bylaws require Sections to hold elections, even if the races are non-contested. We are also required to allow for write-in votes, but the fact is that no one has ever come remotely close to being elected that way. Besides being placed on the ballot by the Nominations and Elections committee, the only way to get there is through a petition.

At least one past Section Chair not only ran, but was elected in precisely this way. Only 15 signatures (one can even be the candidate's own) of Section members are needed. You send the petition to the Secretary, and you're on the ballot.

We're a 100% volunteer organization. None of us is paid for what we do, and we have no paid employees. Volunteers are always welcome. The work is interesting, fun, and rewarding. We invite you to join us!

*Karl Marhenke, Secretary*



## Western Regional Meeting

November 10-12, 2011 Pasadena, CA

The 43rd Annual Western Regional meeting was held in Pasadena on November 10-12, 2011. It was hosted by the Southern California local section on the 100th anniversary of their founding. Over 500 people attended the meeting. The meeting key note presentation featured a symposium, sponsored by the Beckman Center at Caltech celebrating the legacy of

Arnold Beckman. Dr. Leroy Hood, President and Co-founder of the Institute of Systems Biology, Seattle Washington gave the keynote address. One of the innovative features of this meeting was a "speed dating" session in which undergraduate students were given an opportunity to meet with ACS chemists. There were 13 tables, each manned by 2-3 chemists, and the stu-

dents moved from table to table, spending about 10 minutes networking with the chemists. This was a highly successful session and one that we may reestablish at our upcoming meeting.

We applaud the Southern CA section on their 100th anniversary, and on the successful Western Regional meeting. As regular readers of the Santa Clara Valley newsletter know, our section will be co-hosting the next Western Regional Meeting during October, 2013. We plan to build on the excellent precedent established by the Southern CA section as we work towards our meeting.

## Save the Date !!! 44th Western Regional Meeting

October 2-5, 2013 in the Bay Area  
The Flavors of Chemistry!!

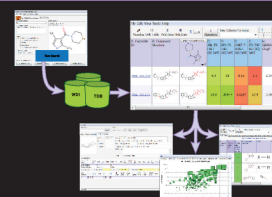
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Solar	Nanotech	Physical
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## CHEMPLOYMENT ABSTRACT 3974

**Position Title:** Senior Scientist/Associate Director - Antibody Drug Conjugation (ADC)

**Job Description:** Candidates should have extensive experience in protein and antibody conjugations and be a demonstrated thought leader in the ADC field. The successful candidate will interface with both chemists and biologists in developing new technologies for the production of ADCs as well as optimizing current strategies. The position allows the successful candidate to play a pivotal role in augmenting Genentech's strong clinical pipeline of new therapeutic ADC candidates.

### QUALIFICATIONS DESIRED:

**Education:** PhD in Biochemistry, Molecular Biology or Chemistry

**Experience:** 10 or more years of experience working with proteins, antibodies and conjugation technologies. The candidate must have strong biochemical, analytical and biophysical skills including mass spectrometry and all chromatographic techniques.

### LOCATION, SALARY, EMPLOYER:

**Job Location:** South San Francisco, CA

**Salary:** DOE

**Employer:** 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:** To apply for this job, visit <https://roche.taleo.net/career-section/test/jobapply.ftl?lang=en&job=00380053&src=JB-11480>. EOE

## Happy New Year!



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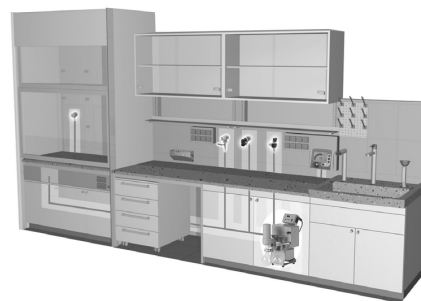
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## SANTA CLARA VALLEY SECTION

### 2012 Section Officers

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Past Chair	Abby Kennedy	209-640-2005	<a href="mailto:akennedycali2007@yahoo.com">akennedycali2007@yahoo.com</a>
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Treasurer	Ihab Darwish	650-594-1654	<a href="mailto:darwishis@yahoo.com">darwishis@yahoo.com</a>

### Councilors

2010-2012	Linda Brunauer	408-554-6947	<a href="mailto:lbrunauer@scu.edu">lbrunauer@scu.edu</a>
2010-2012	Sally Peters	650-812-4994	<a href="mailto:Sally.Peters@parc.com">Sally.Peters@parc.com</a>
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2011-2013	Mark Kent	408-736-0989	<a href="mailto:marklent@yahoo.com">marklent@yahoo.com</a>
2011-2013	Harry Ungar	831-708-2049	<a href="mailto:haungar@cruzio.com">haungar@cruzio.com</a>
2012-2014	Lisa Milstein	510-624-4019	<a href="mailto:lisa.milstein@balazs.com">lisa.milstein@balazs.com</a>
2012-2014	David Parker	408-615-4961	<a href="mailto:dparker@santaclaraca.gov">dparker@santaclaraca.gov</a>

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### ChemPloyment Abstracts

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## FUTURE MEETINGS

<b>Jan 19</b>	Dr. William Carroll 2011 Mosher Award Winner Biltmore Hotel & Suites Santa Clara, CA
<b>Feb 16</b>	Dr. Ripudaman Malhotra SRI International A Cubic Mile of Oil Location TBD
<b>Mar 15</b>	Dr. Peter Rusch New Definition of the Kilogram Biltmore Hotel & Suites Santa Clara, CA
<b>Mar 25-29</b>	Spring National Meeting San Diego, CA
<b>Mar-Apr</b>	Santa Clara Valley Chemistry Olympiad
<b>Apr 21</b>	Chemistry Olympiad, National Exam Las Positas College Livermore, CA