

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 25 No.1

February Dinner Meeting Antarctica: The Ultimate Field Trip

– Juanita Ryan –

Abstract

Juanita Ryan was one of 16 teachers selected to participate in the Teachers Experiencing Antarctica and the Arctic (TEA) Program. Sponsored by the National Science Foundation (NSF) and administered by Rice University, the Cold Regions Research and Engineering Lab (CRREL), and the National Museum of Natural History (NMNH), the TEA Program immerses teachers in a polar research experience.

Juanita was invited to join the ANSMET (Antarctic Search for Meteorites) team for the 2001-2002 field season. Led by Principal Investigator, Dr.



Ralph P. Harvey of Case Western Reserve University, the team of eight (6 scientists, 1 mountaineer, and 1 teacher) set-up camp at the base of the Transantarctic Mountains near Darwin Glacier, otherwise known as "Meteorite Hills". The team spent the

next four weeks traveling across crevasse-filled fields, over ice-cover hillsides, and up mountaintops in search of "rocks from space".

Almost 11,000 meteorites have been found in Antarctica by the ANSMET team in the past 24 years. An additional 10,000 have been found by Japanese

continued on next page

February Dinner Meeting

Date: February 20, 2003

Time: 6:00 Social hour
7:00 Dinner
8:00 Lecture

Location: Biltmore Hotel & Suites
2151 Laurelwood Road
Santa Clara, CA 95054
408-988-8411

Speaker: Juanita Ryan
Science teacher
Experiencing Antarctica

Cost: \$27.00
with the choice of
Chicken Monterey
(Broiled and topped
with avocado and cheese)
or Penne Pasta
(with portabella mushrooms
and Alfredo sauce)

Reservations: www.scvacs.org
Shirley Radding
408-246-2564
408-296-8625 Fax

Reservations should be made by February 17th, stating your name, company affiliation, number of people in party, and menu selection.

If you are unable to honor your reservation, you will be invoiced following the dinner meeting. To attend the lecture only, no reservations are needed.

Reminder

January Dinner Meeting and Saturday Demonstrations

On Friday, January 17th, Dr. Lang will be receiving the 2002 Mosher Award. Dr. Lang will be talk on leadership in the chemistry field, "The Elements of Leadership: Chemical Demonstrations With a Theme". The dinner will be held at the Biltmore Hotel and Suites in Santa Clara. Dinner selections for the evening are grilled salmon or wild mushroom stuffed manicotti. For reservations, please contact Shirley Radding (408-246-2564, 408-296-8625 FAX) by January 13th or visit the section's web site (www.scvacs.org).

Join Dr. Lang and Dr. Showalter on Saturday, January 18th, for one of their world-renowned chemistry demonstrations! The demonstrations will be held at Santa Clara University's Daly Science Center in Room 207 and will promptly start at 2:00 pm. This event is free to the section members and their guests. Don't miss it!

Antarctica, continued from front page

and European programs bringing the total to almost 21,000 meteorites. That's more meteorites found in two decades than have been found in the rest of the world in the past two centuries.

One reason for this abundance of finds in Antarctica is that there are no trees, plants, roads, or soil to obscure the view. On the ice, everything stands out. The meteorites that land there can stay deep-frozen and unchanged for hundreds of thousands, even millions of years. But another important reason is that the Antarctic ice has an in-built mechanism for meteorite concentration.

Over thousands of years glacier flows and the katabatic winds both come into play to expose meteorites to the open air.

In this talk, Juanita will share her personal adventure of living and working in Antarctica and discuss the mechanism that makes Antarctica the "perfect" place for meteorite hunting.

Biography

Juanita Ryan is a 5th grade teacher at Toyon Elementary School in San Jose's Berryessa Union School District. She is a past chair of the San Francisco Section of the American Institute of Aeronautics and Astronautics. She is currently serving as their Precollege Outreach Director. Juanita is involved in education outreach with NASA Ames Research Center, the SETI Institute, and the Santa Clara Valley Section of ACS. She is the recipient of numerous teaching awards and is the 2002 recipient of the "AMGEM Award for Science Teaching Excellence in California".

◆ ◆ ◆ **Editor's Corner**

Two corrections are to be noted in the December 2002 issue. The first was an obvious date for the January 2003 (not 2002) dinner meeting on the front page. The second correction needed: no demonstration will be held at the Biltmore during the January Dinner meeting. Any and all demonstrations will be held the following day, January 18th, at Santa Clara University's Daly Science Center (Room 207) starting at 2:00 pm.

Chair's Message

Happy New Year! For the ACS-SCV section, the New Year also brings a change in leadership. My name is Maureen Scharberg and I am the 2003 Chair for the ACS-SCV Section. I am an Associate Professor of Chemistry and Co-Director of the Science Education Program at San José State University.

In 2002, the Program Committee and I were busy planning a variety of events for 2003 that we believe will interest the diverse group of chemistry professionals in our section. I hope you will attend many of these events.

At our January dinner meeting, we awarded the 2002 Harry and Carol Mosher Award to Dr. C. Marvin Lang, Professor of Chemistry from University of Wisconsin, Stevens Point. On Saturday, January 18th, Dr. Lang and his University of Wisconsin colleague, Dr. Donald Showalter, presented spectacular chemical demonstrations in the Daly Science Center at Santa Clara University. I thank Dr. Linda Brunauer, one of your ACS-SCV Councilors, and her staff at Santa Clara University for hosting this event. Also, I thank Dr. Jamil Talhouk for chairing the Mosher Award this year.

Next month on February 20th, middle school science teacher, Juanita

Ryan will discuss her research experience in Antarctica. I hope you will plan on attending the dinner and her research seminar. It should be quite fascinating! Research experiences for teachers play a critical role in enhancing their professional development in science. Teachers, like Juanita, often then bring their experiences into their classrooms to enrich their students' learning environments. If you would like more information on providing research experiences, especially 6-8 week summer internships for chemistry teachers, please contact me.

I hope that you will participate in our monthly dinner meetings and other events throughout the year. Current ACS-SCV Section information can always be found on our website at www.scvacs.org. Karl Marhenke does a wonderful job in keeping our web page up to date. Also, to learn more about our Section's activities and volunteer opportunities, I invite you to attend our monthly executive meetings. I can be reached at (408) 924-4966 or scharbrg@pacbell.net for any questions or suggestions. Once again, best wishes for a Happy New Year!

Maureen Scharberg

Dr. George Washington Carver Science Fair Cancelled

For the past three years, the Santa Clara Valley local section has participated in the Dr. George Washington Carver Recognition Day held around January 5 at the Santa Clara Convention Center. ACS has provided funds, science fair judges, and the new Carver Kidvention activity. We regret to inform you that the Carver Science Fair, Carver Kidvention and Awards Dinner has been canceled for January 4, 2003.

After a number of factors are considered, the overriding problem was a lack of adequate funding this year — no doubt due to the decline in the economy, particularly in the Silicon Valley. We want to thank those ACS members that have served as volunteers in the past and volunteered for this e January 4 event. We understand that plans are underway for Carver Day on January 3, 2004, and we will keep you informed.

Howard Peters
Chair, SCV - Minority Affairs Committee

A National Chemistry Week Update

Happy New Year to all our readers! Albeit somewhat belated, I wanted to give you all an update of National Chemistry Week last year. Unfortunately, I missed the December issue deadline as I was in sunny Australia at the time. Both Governor Gray Davis and Mayor Ron Gonzales proclaimed October 20-26 last year "National Chemistry Week" with the theme "Chemistry Keeps Us Clean" and we had a successful week, with several colleges including Cañada College, Notre Dame de Namur University and Cabrillo College holding career events for their students. Local libraries in San Jose including Hillview Library and Biblioteca Latino Americana

also participated. Our very own Dr. Bruce Raby went out to Hillview Library and spoke to the kids about chemistry and did some simple demonstrations, which went over well. Chemistry demonstrations and outreach programs at libraries can be done any time throughout the year so if there is anyone interested in participating please let me know. If you speak Spanish, we would also like to organize outreach programs at Biblioteca Latino Americana for the children there.

On the eve of NCW, we held a successful workshop/seminar on "Celebrating Excellence in Chemistry" and the teachers who attended received several NCW ideas and items to take back to their schools and students. These included Celebrating Chemistry, the activity publication for elementary and middle school students which contained activities relating to keeping clean as well as brief articles that aimed to teach students more about what chemistry is and

how it influences our quality of life. Also included was ChemMatters, the magazine for high school students and the Journal of Chemical Education with feature articles and activities related to the NCW-2002 theme in its October issue. Teachers also received temporary tattoos for their students, milli-liter sponges, pencils and several other goodies. We were very fortunate to receive some wonderful booklets from the Soap and Detergent Association, courtesy of Nancy Bock, the Senior Director of Consumer Education, that we passed onto the teachers as well. We finished off NCW with our annual "Slime Fest" that was held at La Entrada School soccer field in Menlo Park with kids and adults alike thoroughly enjoying themselves with slime. Details were posted on our website (www.scvacs.org) by Dr. Karl Marhenke, and we will do so again this year.

Speaking of this year, NCW will be held on October 19-25, 2003 with the theme "Earth's Atmosphere and Beyond", so please start thinking of ways that you would like to participate – volunteers are always more than welcome. Feel free to contact me anytime at asfiaq@yahoo.com or 650-526-3031.

Asfia Quershi



Professor Collman, the presenter at the November dinner meeting, and his wife converse over dinner.



Jon Touster, now, our past-Chair is relaxing from his duties.

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The Division of Chemistry and The Law

Contributed by Hubert H. Dubb and Howard Peters

The Division of Chemistry and The Law (CHAL) was created in the mid-1970s, largely at the impetus of Howard Peters and Hubert Dubb of the Santa Clara Valley local section. Peters and Dubb had each worked for several years as a research chemist before completing law school. Before the creation of CHAL, ACS did not have a division that programmed at the interface of the chemical and legal professions. Patent law is an obvious area of overlap, but increasingly, chemistry and law have intersected in the areas of expert testimony, professional liability, regulatory law, chemical tort liability law, forensic chemistry, criminal law, and labor law.

Peters recruited like-minded individuals, at first mainly from the Santa Clara Valley local section and progressively from other geographic areas, and organized a committee for programming in this field at ACS national meetings. Peters and Dubb submitted the original petition and signatures in early 1979. The United Airline strike left many voting ACS members from the Spring meeting in Honolulu and delayed the process. Early helpers in his efforts were Shirley Radding and Jack Riley. Neither Radding nor Riley had legal training, but both were increasingly becoming involved in the regulatory interface between the chemical and legal professions. Peters also arranged for the group to operate as a subdivision of the Division of Chemical Information. After several years of operation as a subdivision, CHAL was made a probationary division in 1982 and was granted full status as an ACS division in 1985.

CHAL does not operate in any one area of technology, because all technological areas interact with the law. Accordingly, CHAL continues to program in areas of interest not only to its members but also to members of all ACS divisions. Typical programs educate ACS members about career opportunities in chemistry and the legal profession; proposed and actual modified statutory laws; regulatory agency rules and interpretations and court interpretations, which can affect the

chemical profession in many ways; what to expect if called upon to act as a witness at a trial as taught through mock trials; what rights and responsibilities a chemist might have in intellectual property that he or she created or helped to create; and what a chemist's rights are in cases of harassment. CHAL also inherently creates a networking opportunity for its members. This opportunity is enhanced by the division's excellent newsletter, edited from its inception by Radding; its periodically published membership directories; and more recently, its web site. CHAL also has created the Roger Middelkauf Award, named for a deceased former chair of the division. It is awarded on an occasional basis for outstanding service to the division, the Society, and the chemical profession.

CHAL members come from all chemical disciplines and all types of organizations with an interest in the interface between chemistry and law. Many members of CHAL have degrees in chemistry and law. The CHAL board and membership are currently com-

posed of chemists from all areas of the country. CHAL has grown from a full divisional membership of about 200 to a current membership of about 1100. Further growth is expected in the next 25 years as interactions between chemistry and the law continue. Visit CHAL's website at membership.acs.org/c/chal.

This information is taken from the booklet published in 2002 "The American Chemical Society at 125 – A Recent History 1976-2001.

Dr. Hubert Dubb is a retired San Francisco patent attorney with an undergraduate chemistry degree from Cal Tech, a Ph.D. in Chemistry from Yale, and a law degree from a school in Southern California.

Dr. Howard Peters is a patent attorney in Palo Alto with a B.S. in chemistry from Geneva College (Beaver Falls, PA - former home of Joe Nameth), a Ph.D. in Chemistry from Stanford, and a law degree from Santa Clara University. He is a former chair of the local section and of CHAL, and is presently the Councilor for CHAL. He recently was a candidate for the ACS Board of Directors for District VI and lost by a narrow margin.

Workshop for Teachers: Clean Chemistry

Roche Bioscience and the ACS Santa Clara Valley Section teamed up again to sponsor a Saturday workshop for area teachers. Superteachers Juanita Ryan of Toyon Elementary School and Julie Shultz of Redwood Middle School planned all the experiments and taught the workshop. Their expertise and enthusiasm once again produced a very successful program. The workshop theme followed that of National Chemistry Week, "Chemistry Keeps Us Clean." Teachers from many area schools enjoyed the workshop and took away experiments to do with their classes.

The workshop included hands-on experiments dealing with the properties of water, bubbles, surfactants, and the composition of cleaning materials such as soaps and toothpastes. Break-fast, lunch, and snacks were provided, allowing teachers and volunteers time to interact and discuss workshop topics. Tours of Roche laboratories were provided by employees and showed many of the ways chemistry is used in the discovery and development of medicines. The workshop concluded with a prize drawing featuring many useful items donated by Roche, including keyboards and other computer accessories and supplies useful for teachers. Each teacher also received gift bags of beakers and chemistry publications for use in the classroom.



The workshop organizers: Ferenc Makra and David Swinney.

CHEMEMPLOYMENT ABSTRACTS – JANUARY 2003

CHEMEMPLOYMENT ABSTRACT 3708

Position Title: Chemical Engineer (through June 30, 2003)

Job Description: Seeking an experienced Chemical Engineer to work on an instruments development project through 6-30-03. Duties include acting as primary chemical engineering resource working with engineering design team to develop two robust instrument products. Designing test plans (real and simulated chemical reactions) to evaluate the functionality and ergonomics of instruments. Performing system testing/validation according to test plans, running required chem reactions to assess performance. Analyzing results and making engng recommendations on performance issues. Creating test reports to document results of instrument testing.

QUALIFICATIONS DESIRED

Education: BS or equivalent degree in Chemical Engineering
Experience: 2-5 yrs exp in design executing test plans to validate performance of instrumentation/control systems 2-5 years exp designing high-pressure systems with heat and mass transfer analysis knowledge. Familiar with safe lab practices. Excel proficient Experience designing instrumentation for chemical, life science or pharma industries a plus.

Application Instructions:

Contact: Argonaut Technologies, Inc.
Send resume to: hrinfo@argotech.com

CHEMEMPLOYMENT ABSTRACT 3709

Position Title: Research Scientist

Job Description: Responsible for synthesis & development of processes used in the manufacturing of electro & photoactive materials.

QUALIFICATIONS DESIRED

Education: PhD in organic/organometallic chemistry.
Experience: At least 3-5 yrs of hands on bench synthesis exp, extensive exp with air-sensitive organometallic reagents.

LOCATION, SALARY, MAIL ADDRESS

Location: Fremont
Salary: Competitive salary & benefits
Description of Employer: Nanotechnology/Nanomaterials company

Application Instructions: Send resume to:

UltraPhotonics
Human Resources
48611 Warm Springs Blvd.
Fremont, CA 94539
FAX: 510-683-4661
Email: Jobs@ultraphotonics.com

CHEMEMPLOYMENT ABSTRACTS 3710

Position Title: Research Assistant/Synthetic Chemist

Job Description: Responsible for the synthesis of new organic & organometallic compounds

QUALIFICATIONS DESIRED

Education: BS/MS Chemistry
Experience: at least 5-7 yrs of industrial exp performing synthetic chemistry

LOCATION, SALARY, MAIL ADDRESS

Location: Fremont
Salary: Competitive salary & benefits
Description of Employer: Nanotechnology/nanomaterials company

Application Instructions: Send resume to:

UltraPhotonics
Human Resources Dept.
48611 Warm Springs Blvd.
Fremont, CA 94539
FAX: 510-683-4661
Email: jobs@ultraphotonics.com

EMPLOYMENT HELP IN OTHER AREAS OF CALIFORNIA

The following are names and addresses of contacts in other California Sections. You may write to them or call to find out how to receive their job listings or how to place a job listing with them. Do not send self-addressed envelopes unless requested to do so.

California Section

Mrs. Nancy Gephart
ACS, California Section
49 Quail Court
Walnut Creek, CA 94596
925-287-8055
e-mail: office@calacs.org

California Los Padres Section

Dr. Sandra Lamb
Chemistry Dept., UC Santa Barbara
Santa Barbara, CA 93106-9510
e-mail: lamb@chem.ucsb.edu

Mojave Desert Section

Dr. Peter Zarras
NAWCWD, Code 4T4220D
1 Administration Circle
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760-939-1396
e-mail: zarrasp@navair.navy.mil

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Garden Grove, CA 92641
714-895-9558
Ron Denedour
23731 Coronel Drive
Mission Viejo, CA 92691-3306

Sacramento Section

John R. Bingham
809 W. Stadium Lane
Sacramento, CA 95209
916-927-7088 916-927-7006 FAX

CHEMEMPLOYMENT ABSTRACT 3711

Position Title: Associate Scientist/Scientist

Job Description: Develop/implement protein recovery processes from lab to manufacturing scale. This will include process optimization & validation, product characterization & development of new recovery technologies.

QUALIFICATIONS DESIRED

Education: Requires a PhD in Chem Engrg, Biochem or related field.
Experience: Exp with protein purification & characterization is required. Knowledge of design, optimization & scale-up of recovery processes & the ability to work creatively & take initiative are necessary. Excellent communication and presentation skills are a must.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco
Description of Employer: For over 26 yrs, Genentech has been at the forefront of the biotech industry, using human genetic information to discover, develop, commercialize and manufacture biotherapeutics that address significant unmet medical needs.

Application Instructions:

You must include Job Code 5023-ACS in your cover letter or resume. Visit Genentech's website at www.gene.com and apply online today or email your resume to flaufer@gene.com.

CHEMEMPLOYMENT ABSTRACT 3712

Position Title: Chemical Account Manager

Job Description: Responsible for sales dollars within territory; developing strategic business plans & tactical plans for target accounts; developing regional competitive pricing analyses; training sales reps in chem sales; providing market intelligence & new product ideas; supervising new product launches; and performing other duties as required.

QUALIFICATIONS DESIRED

Education: B.S. in Chem, Chem Engineering or Biochemistry
Experience: 3-5 yrs of selling and/or marketing exp in lab distribution and/or chem industry, along with an understanding of product profitability. An ability to communicate within all levels of the organization in various formats is required. Computer proficiency is required (Windows and MS Office). Product knowledge is critical.

LOCATION, SALARY, MAIL ADDRESS

Location: San Francisco
Description of Employer: Fisher Scientific International Inc. is the world leader in serving science.

Application Instructions:

Apply through the Fisher web site at www.fisherscientific.com, Job # 559.

CHEMEMPLOYMENT ABSTRACT 3713

Position Title: Research Associate/Sr. Research Associate (Req. #BF2-428)

Job Description: Explore & develop new or existing routes to drug candidates. As Research Associate, you will be integral in performing & monitoring chem reactions, isolations, separations, purifications & crystals. Also conduct route scouting, reaction optimization & scale-up.

QUALIFICATIONS DESIRED

Education: BS/MS in Chem/Org Chem with a Syn Org Chem background.
Experience: 1-4 years of practical lab exp in running & monitoring org reactions & purifying the reaction prods. Familiarity with modern spect methods applied to structure detn including proton & carbon-13 NMR, infrared spect, & mass spect are preferred. Exp in the use of preparative silica gel chromatography & analytical HPLC & GC instrumentation is preferred.

LOCATION, SALARY, MAIL ADDRESS

Location: Foster City, CA
Description of Employer: Gilead Sciences is a biopharmaceutical company that discovers, develops & commercializes therapeutics to advance the care of patients suffering from life-threatening diseases worldwide.

Application Instructions:

Interested candidates should apply online at www.gilead.com.

Thanks go to Roche for providing a generous grant, and to the new primary organizers of the workshop, David Swinney and Ferenc Makra who did a great job in taking on the myriad organizational tasks. Other Roche employees who generously gave of their time and enthusiasm were Ronald Cohn, Stephen Gomez, Fujun Li, Rebecca Mackenzie, Kristen McCaleb, Bart Miaullis, Barbara Murphy-Wesley, Eric Sung, Patricia Takahara, Felicia Thai, Paul Wortel, Lynne Yacovetta, Helen Yeo, Garry Hedden, Mike Maddox, and Bruce Koch. A special thanks to



Juanita Ryan taught the workshop.

Brenda Price for her work behind the scenes.

ACS Section members who cheerfully assisted in whatever needed doing included Lois Durham, Carol Mosher, Howard Peters, Sally Peters, Bruce Raby, Jack Riley, and Bonnie Charpentier.

The response from the participants was very positive. The workshop, which has become an annual event, is a great way of supporting our teachers and providing fun ways to teach and learn chemistry.



Teachers, Christine Price and Martha Rubin explored the properties of water droplets on a variety of surfaces.



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CHEMPLOYMENT ABSTRACTS



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ChemEmployment Abstracts

Director: **Shirley B. Radding** 408-246-2564 sradding@att.net

FUTURE MEETINGS

- | | |
|------------------|--|
| Jan 18 | Chemistry Demonstration <i>Dr. C. Marvin Lang</i> University of Santa Clara |
| Feb 1-5 | LabAutomation 2003 Palm Springs, CA |
| Feb 1-5 | 50 Years On: From the Double Helix to Molecular Medicine University of Miami |
| Feb 20 | SCV Dinner Meeting <i>Juanita Ryan</i> Experiencing Antarctica |
| Feb 23-26 | Polymorphism in Crystals Tampa, FL ACS Prospectives |
| Mar 9-13 | Pittcon 2003 Orlando, FL |
| Mar 13 | SCV Dinner Meeting <i>Dr. Thomas Okarma</i> Stem Cell Research |
| Mar 23-27 | ACS Spring National Meeting New Orleans, LA |

For the latest information, please visit
SCV/ACS web site: www.scvacs.org



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