The Elements of Leadership: Chemical Demonstrations With a Theme!
2002 Harry and Carol Mosher Awardee
Professor C. Marvin Lang

The 2002 Harry and Carol Mosher Award will be presented to Professor C. Marvin Lang on January 17, 2003 at our monthly dinner meeting in the Biltmore Hotel in Santa Clara. The evening will include a dinner (make your reservation early, seating is limited), the Award address by Professor Lang, and a chemistry demonstration. The address and the demonstration will take place in an adjacent hall to the dining room.

Dr. Lang’s extensive biography has been published already – see the August 2002 issue!

Abstract

Chemical professionals are leaders! They are immersed in challenging and intriguing problems. They identify and solve problems. In fact, there are some that claim, “Chemistry is the problem!” How is it that individuals interested in chemical phenomena, over many modern generations, have often held positions of great importance? In the last century Herbert Hoover was a chemical engineer before becoming President of the USA. Margaret Thatcher was an analytical chemist before her tenure as Prime Minister of England. Each of us could add a name to the list of renowned leaders in government, medicine, theology, law, etc., who had prior significant experience with chemistry. What characteristics do they have in common?

The Harry & Carol Mosher Award addressee will present thoughts and ideas on the subject “What are the characteristics of a successful leader?” For example, “How do ordinary people perform extraordinary feats?” “What motivates and inspires leaders to rise above themselves and get others to follow?” “What roles do self-discipline, honor and integrity play in leadership?” These questions prompt answers and comments that will be punctuated with pertinent and inspiring chemical demonstrations!

January Dinner Meeting

Date: January 17, 2002
Time: 6:00 Social hour
Sponsored by Peters, Verny Jones, and Schmitt, LLP
7:00 Dinner
8:00 Lecture

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

Speaker: Dr. C. Marvin Lang
Lecture and chemical demonstration

Cost: $27.00 with the choice of Grilled salmon or wild mushroom stuffed manicotti

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

Reservations should be made by January 13th, 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. Reservations are not needed for attending the lecture only.
Here is the update on National Chemistry Week (NCW) as promised in my last message. It was a great success! All of our events went well. I was at the Menlo Park slime event for kids at the La Entrada School soccer fields. We made a lot of slime, and the kids had a lot of fun.

I’d like to thank Asfia Qureshi for doing a fine job of organizing and coordinating all of the section’s NCW events. And, thanks to the folks who volunteered and made each event such a success.

I wish everyone a happy and safe holiday season. Our first meeting of the new year will celebrate the Harry and Carol Mosher Award winner for 2002: Dr. C. Marvin Lang of the University of Wisconsin. The dinner meeting will be on Friday, January 17th at the Biltmore Hotel. We are fortunate that Dr. Lang, a renowned chemical demonstrator, will put on a show at Santa Clara University on Saturday, January 18th (check our web site for details). It should be a great time, so bring the whole family.

This is my last Chair’s message. Writing them has been a rewarding experience as has been Chairing the section. I am glad to have had the opportunity. However, I am also glad to be finishing up and passing on these responsibilities to Maureen Scharberg, our new Chair. I know Maureen will do a great job.

Certainly, Laura Jarvis, our Newsletter editor, will breathe a sigh of relief, as Maureen’s messages will not test Newsletter deadlines as much as mine. Have a great holiday week - see you next year!
Voluntary Membership
It Helps

Many of you have already received your membership notice from ACS National. In addition to renewing your membership and journal subscriptions, we hope you contribute to your local section by paying the voluntary dues. For your $12, you get all the programs your local offers including this newsletter, monthly dinner meetings, recognition of your fellow chemists through awards, support for local schools teaching chemistry, and outreach programs such as National Chemistry Week.

The volunteers of the local section would like to thank you for your generosity.

2003 ACS - SCVS
Election Results

CHAIR-ELECT: George Lechner
SECRETARY: Karl Marhenke
TREASURER: Hong Gao
COUNCILORS (2003-2005)
Maureen Scharberg
John Riley
Ean Warren

ALTERNATE COUNCILORS (2003-2005)
David Parker
Laura (Rasay) Jarvis
Asfia Qureshi

Patent Truths: Kid Stuff

I have found some great websites for the kid in all of us. Some of the information below is summarized from these sites (http://inventors.about.com/library/inventors/blplaydoh.htm and http://sillyputty.com/history_101/timeline/timeline.htm).

1. “LINCOLN LOGS” were invented by John Lloyd Wright in 1916. Wright was the son of the famous architect, Frank Lloyd Wright, and claimed he was inspired by the interlocking foundation of the Imperial Hotel (the earthquake proof building) in Tokyo, Japan. (The day the Imperial Hotel opened in 1923, the massive Tokyo earthquake and fire destroyed all buildings for miles. But the hotel survived intact and operating.) By 1975, more than a million sets of LINCOLN LOGS were being sold annually (http://www.ideafinder.com/history/inventions/lincolnlogs.htm).

2. The modern plastic Frisbie® was invented by Walter Morrison (U.S. Patent No. 3,350,67). The Frisbie Baking Company of Bridgeport, CT sold pies to local New England colleges – including Yale University. The metal pie tins were sailed by Yale students. Students would yell “Frisbie” when someone was about to be hit by the sailing metal tin (like “fore” in golf). The plastic Frisbie® was popularized by Wham-O of Southern California.

3. The modern Hula Hoop® was really not protected by patent and sales were subject to cut-throat competition. Research chemists Paul Hogan and Robert Banks of Phillips Petroleum in Oklahoma invented MARLEX® plastic, a blend of crystallized polypropylene and high-density polyethylene (HDPE), U.S. Patent No. 2,825,721 (see National Inventors Hall of Fame at http://www.invent.org). Twenty million hula-hoops were sold (by Wham-O) in 6 months in 1958 for $1.98. It was a great use for this new polymer (http://inventors.about.com/library/inventors/blhulahoop.htm).

4. SILLY PUTTY® was invented by James Wright at GE’s New Haven, CT labs. Boric acid and dimethyl siloxiane produced a novel goo that bounced further than rubber. But, no one could find a practical use for this unusual product. In 1949, unemployed advertising man Peter Hodgson saw “nutty putty” at a party. He borrowed $147, bought the production rights from GE, and produced the elastomer. It was packaged in plastic eggs and sold just before Easter. It was an instant hit - first, with adults and later, with kids. When Hodgson died in 1976, he left an estate of over $140 million (http://web.mit.edu/invent/www/inventorsAH/sillyputty.html and http://sillyputty.com/history_101/timeline/timeline.htm).

5. PLAY-DOH® was invented by Joseph and Noah W. McVicker in 1956 and they received U.S. Patent No. 3,167,440 issued in 1968. It really is based on a well-known wallpaper cleaner formulation used in the East to remove residual winter coal and fuel dust. The similarity to modeling clay without toxicity made a great toy. Joe McVicker became a millionaire before his 27th birthday (http://inventors.about.com/library/inventors/blplaydoh.htm).

6. “KOOSH® BALL” was patented (U.S. Patent No. 4,756,529) by Scott Stillinger of Campbell, CA in 1971. It is a series of elastic strings connected at the center by elastic. In the Silicon Valley, the KOOSH® BALL was a favorite toy to be thrown from one office into the adjacent cubical in the open office environment of most startup companies (http://www.yesterdayland.com/popupedia/shows/toys/ty1198.php).

My wife, Sally, read this draft and said, “You can really tell a guy wrote this column.”

Howard M. Peters, Copyright © 2002
Editor’s Corner

Happy Holidays! I wish everyone happy and safe travels as well as a relaxing time with family and friends. In this month’s issue, you will not see a Technical Division Column. I had gotten married on October 27th and spent most of the October making final preparations. Thus, by the November 10th deadline, I had no time to work on the column for the issue. I hope to have something for the column in the next issue. Until then, happy holidays!

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2002 ACS Western Region Outstanding High School Teacher Award

Maureen hands over the 2002 ACS Western Region Outstanding High School Teacher award to Gareth Wong. In the next issue of the newsletter hear more about the Teacher’s Workshop celebrating National Chemistry Week.

Happy Holidays!

Call for Volunteer Judges and Assistants

Dr. George Washington Carver Recognition Day Science Fair and Carver Kidvention

Date: Saturday January 4, 2003
Time: 8 am - 1:30 pm (includes continental breakfast/coffee and lunch)
Location: Santa Clara Convention Center

The local section has assisted these important events for the past four years; now, you can too! If you can help, please contact Dr. Howard Peters as soon as possible for more information (petersipa@aol.com or 650-324-1677 Extension 3).

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www.gatewaychemical.com • rjkaufman@aol.com
CHEMPLOYMENT ABSTRACT 3703

Position Title: Analytical Chemistry Associate
Job Description: Will run HPLC and GC methods as needed. Will also be responsible for methods validation & certification of the HPLC, GCs, and NMR.

QUALIFICATIONS DESIRED:
Education: BS/MS in Chem or Analytical Chemistry
Experience: At least 2 years of commercial experience in the application of HPLC or GC. Ability to validate methods.

LOCATION, SALARY, MAIL ADDRESS:
Redwood City, CA  94063.

Maxygen, Inc.
Email resume, referencing Job #CDX-275
to jobs@maxygen.com or mail to:
Maxygen, Inc.
Human Resources, Job #CDX-275
515 Galveston Drive
Redwood City, CA 94063
Visit our website at www.maxygen.com for more information.

CHEMPLOYMENT ABSTRACT 3704

Position Title: Analytical Chemist
Job Description: Will develop and implement HPLC/GC methods for research and QA/QC analyses. Will also be responsible for optimizing lab for analytical support as well as selecting & installing new additional analytical instrumentation & capabilities.

QUALIFICATIONS DESIRED:
Education: PhD in Organic or Process Chemistry
Experience: Expertise in synthetic or enzymatic methods for producing and/or resolution of chiral molecules. Pharmacological industry experience desirable.

LOCATION, SALARY, MAIL ADDRESS:
Redwood City, CA
Salary: Depends on experience
Description of Employer: Codexis is a wholly-owned subsidiary of Maxygen, Inc. and is a provider of high-value chemical products and services to worldwide life science and fine chemicals industry.

Application Instructions: Email resume, referencing Job #CDX-276 to jobs@maxygen.com or mail to:
Maxygen, Inc.
Human Resources, Job #CDX-276
515 Galveston Drive
Redwood City, CA 94063
Please see our website at www.maxygen.com.

CHEMPLOYMENT ABSTRACT 3705

Position Title: Process Chemist
Job Description: Will research, develop, and validate processes for prep & scale-up of pharmaceutical chemicals using biocatalysis.

QUALIFICATIONS DESIRED:
Education: PhD in Organic or Process Chemistry
Experience: Expertise in synthetic or enzymatic methods for producing and/or resolution of chiral molecules. Pharmacological industry experience desirable.

LOCATION, SALARY, MAIL ADDRESS:
Redwood City, CA
Salary: Depends on experience
Description of Employer: Codexis is a wholly-owned subsidiary of Maxygen, Inc. and is a provider of high-value chemical products and services to worldwide life science and fine chemicals industry.

Application Instructions: Email resume, referencing Job #CDX-275 to jobs@maxygen.com or mail to:
Maxygen, Inc.
Human Resources, Job #CDX-275
515 Galveston Drive
Redwood City, CA 94063
Please see our website at www.maxygen.com.

CHEMPLOYMENT ABSTRACTS – DECEMBER 2002

Position Title: Scientist/Imuno Chemist Biosanalytical Research & Development
Job Description: Use your expertise in bioanalytical assay development/implementation to support non-clinical & clinical studies of recombinant biopharmaceuticals. Measure drug levels, detect antibodies directed against therapeutic drug, & assess pharmacodynamic biomarkers in biological matrix.

QUALIFICATIONS DESIRED:
Education: Requires PhD in Cell Biology, Immunology or equivalent.
Research Experience: Technical proficiency, 3-5 years of exp. & knowledge of immunochemical assay design, development & formulation fundamentals are required. Excellent organization, communication & interpersonal skills are necessary and experience with a broad range of assay formats is desired.

LOCATION, SALARY, MAIL ADDRESS:
South San Francisco
Designtech Genetech is at the forefront of the biotech industry, using human genetic information to discover, develop, commercialize and manufacture biotherapeutics.

Application Instructions: Refer to Job # 03-000256 and apply online at www.genetech.com.

Position Title: Protein Research Scientist
Job Description: Responsible for synthesis & development of processes used in the manufacturing of electrospray and photoactive materials.

QUALIFICATIONS DESIRED:
Education: PhD in organic/organometallic chemistry. Experience: At least 3-5 yrs of hands on bench synthesis, lab processes and extensive exp with an-sensitive organometallic reagents.

LOCATION, SALARY, MAIL ADDRESS:
Fremont
Salary: Competitive salary & benefits
Description of Employer: Nano Technologies/ Nanomaterials company

Application Instructions: Send resume to:
UltraPhotonics
Human Resources Dept.
40611 Warm Springs Blvd.
Fremont, CA 94539
FAX: 510-685-4661
Email: jobs@ultraphotonics.com

CHEMPLOYMENT ABSTRACT 3707

Position Title: Electrochemist or Electrosynthetic Chemist for Nanotechnology Team
Job Description: NASA Ames Research Center is looking for an electrochemist or electroanalytical chemist to join a cross-disciplinary nanotechnology team for development of biosensors. NASA’s world-class nanotechnology group, in collaboration with National Cancer Institute, is developing nanotechnology-based biosensors for cancer diagnostics for use in space missions.

QUALIFICATIONS DESIRED:
Education: BS or equivalent degree in Chemical Engineering
Experience: 2-5 yrs exp in design & execution of test plans to validate performance of instrumentation/control systems for nanotechnology applications.

LOCATION, SALARY, MAIL ADDRESS:
Redwood City, CA
Salary: Open position
Description: Opening is a contract position, working at NASA Ames Research Center thru ELORET Corporation, a research and engineering firm providing contract & consulting services to clients in government, industry, & academia.

Application Instructions: Interested candidates should forward a resume and statement of interest to Dr. Jun Li at jli@mail.arc.nasa.gov.

CHEMPLOYMENT 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 sub-assembly products. Designing test plans (real & simulated chemical reactions) to evaluate the functionality and ergonomics of instruments. Performing system testing/vallidation according to test plans, running required chem reactions to assess performance. Analyzing results and making engg 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 & execution of test plans to validate performance of instrumentation/control systems for nanotechnology applications.

LOCATION, SALARY, MAIL ADDRESS:
China Lake, CA 93555
Salary: 760-939-1396
e-mail: zarrasp@navair.navy.mil

Orange County Section
Geoff Anderson
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78272 Chapman Avenue
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714-895-9555
Ron Denisou
2371 Monterey Dr.
Mission Viejo, CA 92691-3306

Sacramento Section
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916-927-7006 FAX

San Diego Section
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619-260-4513
619-260-2211 FAX
e-mail: pascal@acusd.edu

San Gorgonio Section
Valerie Barrett
Sunkist Growers
e-mail: vbarrett@sunkistgrowers.com

Southern California Section
Send a self-addressed, 5 cent stamped business envelope to:
ACS job listing
14934 South Figueroa Street
Gardena, CA 90248
310-327-1216
e-mail: office@scalacs.org
www.scalacs.org/employ.html

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-addresses envelopes unless requested to do so.

California Section
Mrs. Nancy Gephart
American Chemical Society
California Section
49 Daul Court
Walnut Cret, CA 94596
925-287-8055
e-mail: office@calacs.org

California Los Padres Section
Dr. Sandra Lamb
Chemistry Dept.
University of California,
Santa Barbara
Santa Barbara, CA 93106-9510
e-mail: lamb@chem.ucsb.edu

Mojave Desert Section
Dr. Peter Zarras
NAWCWD, Code 47220D
1 Administration Circle
China Lake, CA 93555
760-939-1396
e-mail: zarrasp@navair.navy.mil

Greetings
**DECEMBER 2002 NEWSLETTER TOPICS:**

The Elements of Leadership: Chemical Demonstrations with a Theme!

January Dinner Meeting
Chair's Message
Call for Volunteer Judges and Assistants
Don’t Miss a World Famous Chemical Demonstration
Patent Truths: Kid Stuff
Voluntary Membership It Helps
2003 ACS-SCVS Election Results
2002 Western Region Outstanding High School Teacher Award
Editor’s Corner

**CHEMPLOYMENT ABSTRACTS**

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**SANTA CLARA VALLEY SECTION**

**2002 Section Officers**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Jon Touster</td>
<td>650-723-4340</td>
<td><a href="mailto:touster@leland.stanford.edu">touster@leland.stanford.edu</a></td>
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<tr>
<td>Chair-Elect</td>
<td>Maureen Scharberg</td>
<td>408-924-4066</td>
<td><a href="mailto:scharbrg@pacbell.net">scharbrg@pacbell.net</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Karl Marhenke</td>
<td>831-479-6263</td>
<td><a href="mailto:karlmar@armory.com">karlmar@armory.com</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Hong Gao</td>
<td>650-564-5197</td>
<td><a href="mailto:hong.gao@alza.com">hong.gao@alza.com</a></td>
</tr>
<tr>
<td>Past-Chair</td>
<td>Sally Peters</td>
<td>650-812-4994</td>
<td><a href="mailto:speters@parc.xerox.com">speters@parc.xerox.com</a></td>
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**Councilors**

2000-02: Maureen Scharberg  408-924-4066  scharbrg@pacbell.net
2000-02: John F. Riley     650-328-4036  jfriley@atdial.net
2000-02: Evan Warren       650-329-4554  ewarren@scvacs.org
2001-03: Linda Brunauer    408-554-6947  lbrunauer@scu.edu
2001-03: Sally Peters      650-812-4994  speters@parc.xerox.com
2002-04: Bonnie Charpentier 650-948-3931  charpentierbon@yahoo.com
2002-04: Herb Silber       408-924-4924  hbsilber@sjuvm1.sjsu.edu

**Alternate Councilors**

2000-02: Roy Okuda         408-924-2525  okuda@sjsu.edu
2000-02: Donna Drogos      408-265-2600 (ddrogos@geosyntec.com
2000-02: Lance Wong        650-697-1900  lwong@valantis.com
2001-03: George Lechner    408-226-7262  george.lechner@usa.xerox.com
2001-03: Carol Mosher      650-322-3120  cmosher2@aol.com
2002-04: Peter Rusch       650-941-8120  pfrusch@aol.com
2002-04: Jon Touster       650-723-4340  touster@leland.stanford.edu

**Newsletter**

Editor: Laura Jarvis  650-404-2950  editor@scvacs.org

**ChemPloyment Abstracts**

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

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**FUTURE MEETINGS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 17</td>
<td>SCV Dinner Meeting</td>
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<tr>
<td></td>
<td>Dr. C. Marvin Lang</td>
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<td>Mosher Award</td>
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<td>Jan 18</td>
<td>Chemistry Demonstration</td>
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<td></td>
<td>Dr. C. Marvin Lang</td>
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<td>University of Santa Clara</td>
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<td>Feb 2-3</td>
<td>Process Chemistry in the Pharmaceutical</td>
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<td>Industry</td>
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<td>San Juan, PR</td>
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<td>Feb 1-5</td>
<td>50 Years On: From the Double Helix to</td>
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<td>Molecular Medicine</td>
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<tr>
<td>Feb 20</td>
<td>SCV Dinner Meeting</td>
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<td></td>
<td>Juanita Ryan</td>
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<td></td>
<td>Antarctica Research</td>
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<tr>
<td>Feb 23-26</td>
<td>Polymorphism in Crystals</td>
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<td></td>
<td>Tampa, FL</td>
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<td>Mar 13</td>
<td>SCV Dinner Meeting</td>
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<td>Dr. Thomas Okarma</td>
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<td></td>
<td>Stem Cell Research</td>
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<td>Mar 23-27</td>
<td>ACS Spring National Meeting</td>
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<td>New Orleans, LA</td>
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