

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 24 No. 2

March Dinner Meeting Microscale Chemical Analysis Can We Make a Laboratory on a Chip?

Abstract

Dr. Rakestraw will review the history, current status and future of microscale chemical analysis systems. Key applications of this technology in drug discovery, drug development, proteomics and biological weapons detection will be discussed.

Biography

David Rakestraw received a B.S.

degree in Chemistry from Ohio Northern University (1983) and a Ph.D. in Chemistry from Stanford University. From 1988 to 2000, Dr. Rakestraw worked at Sandia National Laboratories where he was engaged in a wide range of research and development activities. Early research activities lead to Dr. Rakestraw receiving the Coblenz Award for his pioneering work in developing nonlinear spectroscopic methods for trace species detection in 1995. During the 98-99 academic year, Dr. Rakestraw took a sabbatical from Sandia to

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Reminder February Dinner Meeting

Our February dinner meeting will be held on **Thursday, February 21st**. Dr. Harry Cook of the United States Geological Survey will give a talk on his adventurous oil field expeditions in Asia. The dinner will be held at the Biltmore Hotel and Suites in Santa Clara. For last-minute details and reservations, log onto our website **www.scvacs.org** by February 21st. Hope to see you there!

March Dinner Meeting

Date: March 21, 2002

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

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

Speaker: Dr. David Rakestraw
Eksigent Technology
Sensors for Chemical and
Biological Agents

Cost: \$25 with choice of Chicken
Toscano - Stuffed with
walnuts and artichokes, or
Vegetarian Stew - served in
a sourdough bread bowl.

Reservations: Shirley Radding
(408) 246-2564
(408) 296-8625 FAX
www.scvacs.org

Reservations should be made by March 18th; stating your name, company affiliation, number of people in the party and the meal preference.

Chair's Message

The other night, my wife and I were solving word puzzles that consisted of scrambled occupations with missing letters. One puzzle consisted of the letters TIMSHC. I kept trying to make it into BLACKSMITH, but it required too many letters. When my wife looked at me struggling with this puzzle, she shook her head and gave me that "you poor boy" look as she wrote down CHEMIST. Even though I missed the puzzle, chemistry was not far from my mind as the next day was the first day of classes for the new quarter.

I enjoy teaching students new to organic chemistry. With fresh eyes they can look at the material from new points of view. I can still be caught off guard by questions that make connections and analogies that are quite novel. Many of these students get excited by chemistry despite themselves. They signed up for the course to fulfill a requirement for their major. They heard the student rap about organic and don't expect to like it. But here they are, nonetheless passionate and involved with the material. I think what catches most of them is the cohesive and systematic nature of organic chemistry. Where general chemistry was a patchwork of important but not necessarily related concepts, organic is a whole cloth.

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Chair's Message, continued from front page

Many of the students who get turned on to chemistry have come from good schools with strong math and science programs. I wonder about the less fortunate students from poor school systems. Will they ever get a chance to be excited by science? Some will, thanks to programs like the Carver Kidvention and the people who help put them on like Howard Peters, chair of our Committee on Minority Affairs. The Carver Kidvention, held on January 5th this year, introduces youngsters to science through hands-on workshops, and problem-solving exercises. It gives them an opportunity to develop and then present their own inventions.

It's not only the poor science education that makes it tough for budding scientists but society's general attitude towards science. While society and the media are fascinated with science's technical achievements, there is much less interest in the basic science from which the technology grew. We each can take a small stand against this trend. Come attend our local section dinner meetings.

The meetings' talks cover scientific issues geared towards a general audience. The food and company are excellent. How will attending the dinner help educate the public? Share your thoughts on the talk at the water cooler and the dinner table with your children. Better yet, bring your junior high and high schoolers to the talk. Remember, the talk is free. What issues will be covered?

In the next two months we are lucky to have two topical speakers. This month on the 21st, Dr. Harry Cook from the U.S. Geological Survey will speak about oil exploration and field expeditions in Central Asian countries bordering Afghanistan. In March, Dr. David Rakestraw of Eksigent Technology will give a talk on microscale chemical analysis systems, discussing their applications in drug discovery and development, proteomics, and biological weapons detection. A few years back, when Dave taught analytical chemistry at Stanford, he loaned me a chemical

Carver Science Fair, Kidvention, and Recognition Day

Many ACS local sections have not created a formal Committee on Minority Affairs to further the work started in 1993 by ACS national. The Santa Clara Valley Section has had a Committee since 1997, with Dr. Howard Peters, a Palo Alto chemical patent attorney, as the first chair. Earlier work resulted in a resolution in 1997 from the ACS Board and Council endorsing the creation of an Official State Day of Recognition in all states to recognize the contributions



Gathering for Carver Science Fair

of the renowned agricultural chemist, Dr. George Washington Carver. By cooperating and partnering with the local African American directed Healing Institute, the ACS Santa Clara Valley Section provided some documents that were helpful in making California the tenth state to create



Overview of the Kidvention.

State Day of Recognition to honor Dr. George Washington Carver. The founder and director of the Healing Institute is Halim Mustafa, the community entrepreneur and a former policeman from East Palo Alto, California.

After much planning and many volunteer hours, the Healing Institute, in partnership with Intel Corporation, Cypress Semiconductor, Microsoft, the Santa Clara Alliance of Black School Educators, the Santa Clara Valley Section of the ACS, and others created the Carver Scholars with over 250 African American grade and high school students in the Silicon Valley. This program won the Healing Institute a special award in 1999 from the U.S. Congress for the best public or private program to encourage

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sensor chip to show my chemical separations class. It really turned them on to see and learn about cutting edge chemistry in action.

While I may forget the name of my profession while puzzle solving, I won't forget the importance of educating students and the general public. I hope you won't either.

I look forward to seeing you at our dinner meetings.

Jon Touster



Microscale Chemical, continued from front page

become a Consulting Associate Professor of Chemistry at Stanford University. Over the past six years Dr. Rakestraw has been engaged in microscale chemical analysis and microfluidic research. This research

was focused toward the development of detection systems for chemical and biological weapons that might be used by terrorists. Key scientific accomplishments in the area of microfluidics include the discovery of high pressure electrokinetic pumping and the development of a new microscale fluid imaging technique. In 2000, Dr. Rakestraw left his position as a Distinguished Member of the Technical Staff at Sandia to start Eksigent Technology with 5 other colleagues. At Eksigent Technology Dr. Rakestraw is developing microscale chemical analysis systems that can be applied to a range of commercial applications such as drug discovery/development, medical diagnostics and general trace chemical analysis.

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minority students in science and engineering.

On January 5, 2002, the Healing Institute and its partners cooperated to hold the third Carver Science Fair primarily for African American students of the Silicon Valley at the Santa Clara Convention Center. Over 150 students participated. About half of the science fair judges were local ACS volunteers. A special thanks is due again to Sally Peters, Howard Peters, Hugh Dubb, Jack Riley, Bruce Raby, Yvonne Butler (of NASA), Art Diaz and his wife, Linda Brunauer (and Bernie), Jamil Talhouk, Herb Silber, Ferenc Makra, Patricia Takahara, Cam Ainsworth, Carl Shoemaker and Chuck Ullman. We couldn't have



Howard Peters spending time with an audience of aspiring scientists and engineers.

done it would their assistance. It is anticipated that many of these first time exhibitors will now exhibit their science project in the local mainstream science fairs.

Ten Santa Clara Valley local section members also organized a Carver KidVention, a program to focus children (in this case 60, K - 5th grade students) what inventions were all about, and that you did not need to be a rocket scientist to be an inventor.

The Carver Recognition Day and Carver Science Fair Award dinner in



Sally Peters works with the students to devise a plan for their creations.



Carver Day Science Fair setup.

the evening mentioned a special videotaped address by Past President Bill Clinton. The Past President praised the many contributions of Dr. Carver, often in the face of adversity, and congratulated the Healing Institute and its partners in Santa Clara for their pioneering volunteer efforts to encourage minority students in science and engineering.

The Healing Institute (with some assistance by the partners) was instrumental in having January 5th added to the Congressional calendar to honor

Dr. Carver. This means that each January 5th federal buildings across the country will display their flags at half-mast to honor Dr. Carver.

Future cooperative projects for the partners include having each of the 50 states declare a Carver Recognition Day each January 5th, having many Carver recognition events around the nation, expanding the Carver Scholars and Carver Science Fair Programs throughout California and the nation, and encouraging the U.S. Treasury to recognize the important contributions of African American chemist Dr. George Washington Carver by issuing a new U.S. coin or U.S. currency for general circulation honoring Dr. Carver. It will be a powerful statement for a minority to be able to go to the local store to buy the paper, a loaf of bread, and milk using newly minted Carver coins and currency!



Ah, the finished product!

Editor's Corner

Several members have contacted me on changing their addresses to expedite the delivery of their monthly newsletters. Since National generates our mailing list, you will need to contact Member & Subscriber Services by telephone, letter, fax, or e-mail. Customer service representatives are available to speak with you by telephone Monday through Friday (except holidays) from 8:30 am to 5:00 pm, Eastern Time. You may also use National's online change of address form.

Please note: Because labels for issues of all publications are generated ahead of mailing, please allow a minimum of 2 to 3 weeks before your issues will be sent to your updated address.

American Chemical Society

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Looked upon by Linda Brunauer and Ean Warren at the January ExComm Meeting, Howard Peters can't seem to keep some holiday chocolate out of his hands (or his mouth!).

The Fifth Annual Paul Flory Conference on Physical and Macromolecular Chemistry

February 22, 2002, Stanford University

PROGRAM COMMITTEE: Professors Michel Boudart, Chris Chidsey,
Gerald Fuller, Alice P. Gast, Vijay Pande, Robert Waymouth

INVITED SPEAKERS:

- Keynote Speaker: Professor Alan Heeger, Nobel Laureate in Chemistry, University of Santa Barbara, "Ultrafast Photoinduced Electron Transfer: From Photodetectors and Solar Cells to Bio-specific Sensors"
- Professor Stacey Bent, Stanford University, "Integrating Organic Materials with Silicon and Germanium"
- Professor Joseph DeSimone, University of North Carolina, Chapel Hill, "The Carbon Dioxide Technology Platform: From Self Assembly in Compressible Media to Totally Dry Lithography in Microelectronics Processing"
- Dr. Howard Turner, SYMYX Technologies, "Recent Advances in Olefin Polymerization Catalysis and Combinatorial Chemistry"
- Professor Christopher Viney, Herriot-Watt University, Edinburgh, "Supramolecular Liquid Crystallinity in Natural and Synthetic Materials"
- Professor Juan De Pablo, University of Wisconsin, "The Glass Transition and Mechanical Behavior of Nanoscopic Polymeric Structures"
- Professor Ken Dill, University of California, San Francisco, Dinner Speaker, "The Flory Theorem and its Impact on Protein Folding"

POSTER SESSION:

- Outside Registrants, Students, Postdoctoral Fellows, and Faculty in Chemistry and Chemical Engineering.

REGISTRATION INFORMATION

<http://www.stanford.edu/dept/chemistry/floryreg.html>

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CALL for NOMINATIONS Shirley B. Radding Award

The Santa Clara Valley Section of the American Chemical Society (ACS) announces the call for nominations for the 2002 Shirley B. Radding Award.

First awarded in 1994 to its name-sake, the Shirley B. Radding Award annually honors someone who has been a member of the ACS for at least 20 years. Nominees must have demonstrated dedicated unselfish leadership; service and significant contributions over a sustained period of time to industrial, applied, or academic chemistry; and to the American Chemical Society through elected or appointed positions at local, regional and national levels.

The award consists of an honorarium of \$1,000 and a suitably inscribed memento. Nominations should consist of at least one letter of nomination stating how the nominee's work relates to all aspects of the award. It is recommended that seconding letters accompany the nomination. Nominations are due on or before April 1, 2002, and must be mailed to:

Radding Award Committee
Santa Clara Valley Section ACS
P. O. Box 395
Palo Alto, CA 94302

CHEMPLOYMENT ABSTRACTS – FEBRUARY 2002

CHEMPLOYMENT ABSTRACTS 3593

Position Title: Associate Chemist

Job Description: Synthesis of new organic cpds to be evaluated as antimicrobial agents.

QUALIFICATIONS DESIRED

Education: BS/BS or MS/MS org

Experience: At least 1 yr of independent research exp in org synthesis is required. A record of publication is desirable. Should also possess excellent communication skills & should have the ability to work both independently & as part of a multidisciplinary team.

LOCATION, SALARY, MAIL ADDRESS

Location: Mountain View

Salary: Competitive salary & benefits

Description of Employer: Innovative Bay Area pharmaceutical company discovering new anti-infective agents.

Application Instructions: Send resume to:
Human Resources

Attn: Job Code 808-MCA
Essential Therapeutics, Inc.
850 Maude Avenue
Mountain View, CA 94043
FAX: 650-526-3034

CHEMPLOYMENT ABSTRACTS 3594

Position Title: Research Associate Medicinal & Synthetic Org Chem

Job Description: Working with A multi-disciplinary team, plan & conduct multi-step synthesis of target small molecules to support identification of drug candidates & participate in continued development of our technology platform.

QUALIFICATIONS DESIRED

Education: BS/MS org chem

Experience: A minimum of 2 yrs lab exp in org synthesis.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive salary with attractive equity position & full benefits

Description of Employer: A dynamic pre-IPO company focused on new methods for the discovery of therapeutic small molecule drugs. www.sunesis.com

Application Instructions: Send resume to:

Email: jobs@sunesis.com
indicating Job Code 1005-ACS
or FAX: 650-266-3503
Sunesis Pharmaceuticals, Inc.
341 Oyster Point Blvd.
South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3595

Position Title: Scientist Medicinal & Combinatorial Chemist

Job Description: Working with a Multi-disciplinary team, design & conduct multi-step synthesis of target small molecules to support identification of drug candidate & participate in continued development of our technology platform.

QUALIFICATIONS DESIRED

Education: PhD org chem

Experience: A minimum of 2 yrs exp in the pharmaceutical industry

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive salary with attractive equity position & full benefits

Description of Employer: A dynamic pre-IPO Company focused on new methods for the discovery of therapeutic small molecule drugs. www.sunesis.com

Application Instructions: Send resume to:

Email: jobs@sunesis.com
indicating Job Code 1042-ACS
or FAX: 650-266-3503
Sunesis Pharmaceuticals, Inc.
341 Oyster Point Blvd.
South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3596

Position Title: Research Associate/Scientist

Job Description: Will be expected to work in a multi-disciplinary team setting & play a critical role in the rapid commercialization of new products.

QUALIFICATIONS DESIRED

Education: BS/MS org chem

Experience: At least 2+ yrs exp in synthesis of peptides & HPLC purification. Experience in peptides, nucleosides & nucleotides synthesis & purification. Excellent communication, interpersonal & problem solving skills.

LOCATION, SALARY, MAIL ADDRESS

Location: Mountain View

Salary: Competitive salary & benefits

Description of Employer: Enabling a new generation of assay technologies & microfluidic systems for biochem & cellular analysis.

Application Instructions: Send resume to:

jobs@aclara.com or
Attn: HR
Aclara Biosciences
1288 Pear Avenue
Mountain View, CA 94040

CHEMPLOYMENT ABSTRACTS 3597

Position Title: Analytical Chemist - RA/SRA (2 positions)

Job Description: Primary responsibility is for departmental operation of LC-MS. A secondary responsibility is preparative purification of small molecules by HPLC of samples prepared by medicinal chemists.

QUALIFICATIONS DESIRED

Education: BS/MS chem

Experience: 2+ yrs industrial exp. Substantial exp in HPLC operation, maintenance & method development. Significant industrial exp in analytical setting & working knowledge of org chem.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive

Description of Employer: From our well-documented advances in neurology & pain management to our pioneering development of an Alzheimer's vaccine, we're committed to channeling the strength of an internationally growing company into biopharmaceutical innovation.

Application Instructions: Send resume to: Email indicating Job Code 50510011-ACS to: elanpharma@roc.webhire.com or FAX: Attn: Elan, 800-295-2479 or visit our web site at www.elan.com Elan Pharmaceuticals Group 700 Gateway Blvd., South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3598

Position Title: Chemist III/Sr. Chemist/Chem Engineer

Job Description: Using established QC procedures, test raw mats, intermediates & finished products in support of research & product development activities & accurately document results within cGMP & SOP requirements. Take part in designing/improving methods, act as tech liaison with multiple proj groups, develop/validate analytical methods & qualify instruments. Focus on phys prop of mats, specifically particle size, thermal mech analysis & rheology.

QUALIFICATIONS DESIRED

Education: BS/MS chem, matl sci, chem engrg
Experience: 8-10 yrs exp in pharm or other GMP/GLP industry. Hands-on exp in use of particle size & thermal-mech analyzers, rheometers, & tensile testers, instrument qual, & method validation exp in GMP/GLP environment. In team environment, should be detail-oriented & able to handle multiple projs with min supervision & tight deadlines

LOCATION, SALARY, MAIL ADDRESS

Location: Mountain View

Application Instructions: Send resume indicating Job Code 01468-ACS to: Alza Corporation, HR Dept, 1900 Charleston Road, P.O. Box 7210 Mountain View, CA 94039-7210 FAX: 650-564-5656 Email: jobs@alza.com (ASCII files only)

CHEMPLOYMENT ABSTRACTS 3599

Position Title: Associate Scientist

Job Description: Will perform & interpret Quantitative analysis for various drugs that will include total loading & dissolution profile; perform stability testing for drug coated stent; & maintain laboratory notebook to document all data.

QUALIFICATIONS DESIRED

Education: BS chem
Experience: 3+ yrs exp in an FDA regulated industrial pharmaceutical lab; hands-on exp with HPLC, UV/VIS, FTIR & dissolution testing.

LOCATION, SALARY, MAIL ADDRESS

Location: Temecula, CA

Description of Employer: Guidant Corporation researches, manufactures & markets systems for cardiac rhythm management, vascular intervention & cardiac/vascular surgery worldwide

Application Instructions: To be considered for this opportunity, please visit: www.guidant.com/careers

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.

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49 Quail Court
Walnut Creek, CA 94596
925-287-8055
e-mail: office@calacs.org

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Dr. Peter Zarras
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916-927-7006 FAX

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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, 55 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

CHEMPLOYMENT ABSTRACTS 3600

Position Title: Analytical Chemistry Group Leader

Job Description: Supervise chemists in analysis of drug products & raw materials for product release & stability assessment.

QUALIFICATIONS DESIRED

Education: BS chem, biochem or related field
Experience: 10+ yrs exp in an FDA regulated industrial pharmaceutical lab; & extensive exp with pharmaceutical analysis, especially HPLC, UV/Vis, FTIR & dissolution testing.

LOCATION, SALARY, MAIL ADDRESS

Location: Temecula, CA

Description of Employer: Guidant Corporation researches, manufactures & markets systems for cardiac rhythm management, vascular intervention & cardiac/vascular surgery worldwide

Application Instructions: To be considered for this opportunity, please visit: www.guidant.com/careers

CHEMPLOYMENT ABSTRACTS 3601

Position Title: Scientists/Research Associates Synthetic Org/Medicinal Chem

Job Description: Apply synthetic org, medicinal, process, combinatorial & computational chem to discover new drug candidates; design/synthesize org cpds & combinatorial libraries for evaluation as part of continuing research process.

QUALIFICATIONS DESIRED

Education: BS/MS/PhD chem
Experience: 1-5 yrs industry exp; active experimentalists & eager to work in an integrated, multidisciplinary drug discovery environment. Exp in multistep synthetic org, combinatorial, process or medicinal chem. Use of NMR, IR, MS, HPLC & routine cpd isolation & characterization methodology; record of accomplishment.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Description of Employer: ChemRx, a division of Discovery Partners Intl, is a world leader in design & production of innovative combinatorial chem & high-output medicinal chem.

Application Instructions: Send resume to: Email: hr@chemrx.com refer to job code SF02-ACH-ACS

CHEMPLOYMENT ABSTRACTS 3602

Position Title: Process Chemist (SRA)

Job Description: responsible to work with a senior scientist to establish lab setup & functions. Requires substantial interaction with multidisciplinary teams.

QUALIFICATIONS DESIRED

Education: BS/MS org chem
Experience: 5+ yrs post degree exp in proc res or scale-up ("kilo") lab, preferably in pharmaceutical industry. Org chem proficiency with a mechanistic understanding of modern syn chem reactions, scale-up issues & characterization techniques required (NMR, MS, HPLC, crystallization & chiral purity evaluation. GMP facility exp desirable.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive

Description of Employer: From our well-documented advances in neurology & pain management to our pioneering development of an Alzheimer's vaccine, we're channeling the strength of an internationally growing company into biopharmaceutical innovation.

Application Instructions: For immediate consideration, please email your resume, indicating Job Code 50510046-ACS to elanpharma@rpc.webhire.com or FAX:attn: elan at 800-295-2479 Elan Biopharmaceuticals Group 700 Gateway Blvd South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3603

Position Title: Analytical Chemist (SRA/Assoc Scientist)

Job Description: Primary responsibility is to fully support the Company's medicinal chem effort thru analytical HPLC methods & preparative HPLC separation of small molecules

QUALIFICATIONS DESIRED

Education: BS, MS, PhD
Experience: Appropriate exp & excellent understanding of modern chromatographic separations. Org chem background & application of HPLC or other methods to detn phys properties of cpds preferred.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive

Description of Employer: From our well-documented advances in neurology & pain management to our pioneering development of an Alzheimer's vaccine, to channeling the strength of an internationally growing company into biopharmaceutical innovation.

Application Instructions: For immediate consideration, please email your resume, indicating Job Code 50510030-ACS to elanpharma@rpc.webhire.com or FAX:attn: elan at 800-295-2479 Elan Biopharmaceuticals Group 700 Gateway Blvd South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3604

Position Title: Research Associate

Job Description: Perform biological & analytical tests associated with in vitro ADMET screens. Also assist in data reporting & instrument maintenance/trouble/shooting.

QUALIFICATIONS DESIRED

Education: BS/MS in life sciences discipline
Experience: 2-5 yrs exp in anal, pharma, bio sciences or relate field. Extensive HPLC method development & LC/MS coupled with a high degree of computer & data-handling exp. Electrospray MS, high thruput instrumentation & bio-anal methods desirable. Lab methods involving live cells & cellular fractions/extracts & chromatog methodology required; plus strong oral & written communications.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive

Description of Employer: Advances in neurology & pain management to our pioneering development of an Alzheimer's vaccine, to channeling the strength of a growing company into bio-pharma innovation.

Application Instructions: For immediate consideration, please email your resume, indicating Job Code 50520062-ACS to elanpharma@rpc.webhire.com or FAX:attn: elan at 800-295-2479 Elan Biopharmaceuticals Group 700 Gateway Blvd, South San Francisco, CA 94080

CHEMPLOYMENT ABSTRACTS 3605

Position Title: Research Assistant

Job Description: Perform biol & anal tests associated with in vitro ADMET screens. Responsible for cell culture maintenance & analysis of samples using HPLC & LC/MS.

QUALIFICATIONS DESIRED

Education: BS/MS with 0-2 yrs exp in chem, biol or related phys sci.
Experience: Computer exp in data handling & reporting; aseptic techniques & mammalian cell culture; chromatographic techniques.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Salary: Competitive

Description of Employer: Advances in neurology & pain management to our pioneering development of an Alzheimer's vaccine, to channeling the strength of a growing company into bio-pharma innovation.

Application Instructions: For immediate consideration, please email your resume, indicating Job Code 50520001-ACS to elanpharma@rpc.webhire.com or FAX:attn: elan at 800-295-2479 Elan Biopharmaceuticals Group 700 Gateway Blvd South San Francisco, CA 94080



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CHEMPLOYMENT ABSTRACTS



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Treasurer: Hong Gao	650-564-5197	hong.gao@alza.com
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Chememployment Abstracts

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

FUTURE MEETINGS

Feb 6	Executive Committee Meeting
Feb 21	SCV Dinner Meeting <i>Dr. Harry Cook, USGS</i>
Feb 24-27	Process Chemistry in the Pharmaceutical Industry Barcelona, Spain
Mar (TBD)	Chemistry Olympiad
Mar 17-22	Pittcon 2002 New Orleans, LA
Mar 21	SCV Dinner Meeting <i>Dr. David Rakestraw</i>
Apr 7-12	National Meeting Orlando, FL
Apr 25	SCV Dinner Meeting <i>Dr. Michelle Marvier</i>
May 23	SCV Dinner Meeting <i>Bob Roudon</i>

For the latest information, please visit
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