

# Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 27 No. 3

## April Dinner Meeting An Overview of OLED Technology

Homer Antoniadis, OSRAM Opto Semiconductors Inc.

### Abstract

An overview of organic light emitting diode (OLED) technology will be given. The OLED device structure and operation mechanisms will be described with emphasis on the photometric device characteristics in terms of device luminance efficiency at various driving conditions. Two different OLED technologies will be compared, these made by vacuum deposition of small molecules and these made by solution processing of polymers. The long term processing and fabrication potential of polymer OLEDs will be contrasted to the most recent full color demonstrators and product introductions of small



molecule OLEDs. Finally the potential of using OLEDs as fundamental blocks of large area solid-state. Illuminators will be explored.

### Biography

Dr. Homer Antoniadis is the Head of OLED Product Development at OSRAM Opto Semiconductors. In this capacity, he is responsible of designing, engineering and developing the company's display products based on light emitting polymers. Dr. Antoniadis is also the Program Director of the recently awarded US Department of Energy grant for developing efficient light sources based on white emitting polymers.

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## April Dinner Meeting

**Date:** Thursday, April 21, 2005

**Time:** 6:00 PM Social Hour  
7:00 PM Dinner  
8:00 PM Lecture

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Blvd.  
Santa Clara, CA 95054

**Speaker:** Homer Antoniadis  
Organic LEDs, OSRAM

**Cost:** \$27.00 with the choice of  
Apricot Chicken Vegetarian  
Crepes Includes wine with  
dinner

**Reservations:** [www.scvacs.org](http://www.scvacs.org)  
Shirley Radding  
408-246-2564  
408-296-8625 Fax

Reservations should be made by April 18th stating your name, address, company affiliation, number of people in party, and menu selection.

If you are unable to honor your reservation and do not cancel by Wednesday the 20th, you will be invoiced following the dinner meeting.

## March Dinner Meeting Reminder

On March 24th, join Professor Brandon Brown of USF, to learn how about the study of electroreception in elasmobranchs. Dr. Brown's research pertains to a mysterious gel located under the skin of sharks, skates and rays. His work on these gels suggests these animals have the natural equipment to detect very small temperature changes in the water, which leads to hypotheses about the hunting, mating and moving habits of sharks.

We will convene at the Elks Club in Palo Alto, which is located at 4249 El Camino Real, starting at 6:00 p.m. for registration and social hour and 7:00 p.m. for dinner. The \$17.00 dinner includes Roast Beef with garlic mashed potatoes, mixed vegetables, spinach salad, dinner rolls and peach cobbler for dessert. Coffee and tea are included as well.

Please make your reservations by Monday, March 20th, either online at

### Receive the Newsletter Early!

See <http://www.scvacs.org/newsletter/> for details.

[www.scvacs.org](http://www.scvacs.org) or by contacting Shirley Radding (408-246-2564 or 408-296-8625 FAX). Reservations should state your name, address, company affiliation, and the number of people in your party. If you are unable to honor your reservation and do not call to cancel by Monday, March 20th, you will be invoiced following the dinner meeting.

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*OLED Technology, continued from front page*

Dr. Antoniadis previously was a member of the organic light-emitting diode (OLED) team at the Hewlett-Packard Labs in Palo Alto, CA where he contributed extensively to Hewlett-Packard's research and development effort on OLED display technology. In the early 1990s Dr. Antoniadis worked at Xerox Corporation and the University of Rochester on organic optoelectronic devices with emphasis on xerographic photoreceptors, photodiodes, solar cells, and light-emitting diodes.

Dr. Antoniadis represents OSRAM in the Next Generation Lighting Initiative and is a member of Society for Information Display. He is the author of over 50 publications in various journals, and is a named inventor on 16 U.S. patents. Dr. Antoniadis has been an organizer and member of program committees of various OLED technical symposia.

Dr. Antoniadis, a native of Greece, holds a Bachelors of Science in Physics from University of Ioannina, Greece and his doctorate in transport physics of amorphous silicon from Syracuse University.

*Reminder, continued from front page*

Professor Brown's presentation will begin promptly at 8:00 p.m. If you choose to solely attend the talk, no fee will be charged.

## **So Sensitive: Hydrogel Properties and Shark Neuroscience**

### **Abstract**

The elasmobranchs (sharks, skates, and rays) exhibit an acute sensitivity to their local thermal and electromagnetic environment. The electrosensors are hydrogel-filled bulbs, and each elasmobranch possesses hundreds of these organs. We currently pursue a two-pronged investigation into the physics of this sensory system. First, we seek to determine in what way the hydrogel properties contribute to the electric sense. After extracting the material from shark electrosensors, we have used a variety of characterization experiments taken from condensed matter physics and electrochemistry to explore its functional role. In the parallel branch of our work, we use electrodynamics and computer modeling to investigate how an elasmobranch views the world using its electrosensor array.



### **Biography**

Brandon Brown received his Bachelor's degree in Physics from Rice University in 1992, and he then pursued condensed matter physics at Oregon State University, earning his Ph.D. in May of 1997. His dissertation explored the interplay of magnetic and structural properties in ceramic superconductors, specifically what is known as "flux vortex pinning." He joined the USF Physics Department in 1998; he is now Associate Dean for Sciences there.

Brown's laboratory is equipped to explore the electromagnetic properties of solid matter at low temperatures and high magnetic fields. For more information on Dr. Brown's research, please visit his web site at the University of San Francisco, which is as follows:

<http://www.usfca.edu/physics/faculty/brown/brandon.html>

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## **Chair's Message**

As you read this (in early March) we are nearing the first quarter of 2005. We began with the Mosher Award at the Basque Cultural Center in South San Francisco. Dr. Paul Anderson, the 2004 recipient, spoke on "Drug Discovery: Where have we been and where are we going?" For February, we had Steven Seligson and Jason Stewart of Smith Barney outlined Retirement Planning and the Importance of diversification in volatile markets. A small group braved the rain to meet at the Palo Alto Elks Lodge.

In March Dr. Brandon Brown of USF will speak on electroreception of sharks which allows them to detect very small temperature changes in the water. Again the meeting will be at the Palo Alto Elks Lodge.

In April, we are scheduled to hear about Organic LEDs (Light Emitting Diodes) from Dr. Homer Antoniadis of OSRAM Opto Semiconductors. The

meeting will be at the Biltmore Hotel in Santa Clara.

The May meeting may be in June on Saturday, June 18th at the Monterey Aquarium. This will be a real treat if their Great White Shark survives.

We plan to honor new 50-year members at the awards meeting in July at Stanford University. We need volunteers to help the many projects. To judge from the increase in Chememployment abstracts here and in San Diego, the

economy is recovering. We are told (SF Examiner) that San Mateo has 250 Biotechnology firms. Is there a need for BioTech as a Topical Group in our section? Are there the interested members? Speak to your Councilors or Alternate Councilors. Their contact info is in each Newsletter.

The 229th National Meeting of our Society will be in San Diego, March 13-17, 2005. Your councilors will be there for the ACS Council on March 16th.

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## **Chemistry Blog of the Month**

I hope you enjoyed the February's Blog and gained some insightful information.

For March's issue of the newsletter, I have selected the following blog from UC Berkeley's Lab Notes, which is entitled "Assembling the Future of Nanotechnology." <http://www.coe.berkeley.edu/labnotes/0105/coins.html>

Know of a good chemistry blog or would you like to see your own blog featured in the next issue of the Silicon Valley Chemist? If so, please contact me at [editor@scvacs.org](mailto:editor@scvacs.org). Your help is appreciated!

(The views presented in the blog are not the views and beliefs held by the SCVACS section. Direction to this site is for informational and educational purposes only.)

## Editor's Corner

So, the National ACS Meeting is upon us and is to take place March 13th through March 17th in San Diego, California. Having grown up in the lovely town of Escondido, which is thirty miles north of San Diego, I thought I would share with you some of my favorite places to visit.

**Pat and Oscar's** – Pat and Oscar's is undoubtedly the best restaurant in San Diego for the buck. The restaurant, which has several locations throughout the Greater San Diego area, offers its patrons a wide selection of delectable cuisine, which includes barbeque chicken, gourmet pizza, fresh pasta dishes and a variety of made to order sandwiches and salads. The best item on the menu, hands down, is the breadsticks, especially when they are dipped in Oscar's special Italian Mustard Dressing. Try them – you'll thank me later! The phone number for Pat and Oscar's downtown San Diego location is 619-515-0877.

**Coronado Island and The Hotel Del** – Coronado Island is the gem of San Diego, with its pristine beaches and row of never-ending restaurants and shops. Coronado Island is most known for The Hotel Del. This classic and historic hotel was built near the turn of the century in 1888. This Victorian masterpiece is one of the most renowned hotels in the world and served as the backdrop for Marilyn Monroe's movie, "Some Like it Hot." The Hotel Del is also known for the mysterious haunting of Kate Morgan, and for a special price, you can rent her "ghostly" room for an evening.

**Gaslamp District** – The Gaslamp District is located next to the convention center and boasts a wide variety of restaurants, bars and night clubs, as well as interesting shops.

**Sea World** – My third grade teacher "accidentally" left me and a friend at Sea World while on a school fieldtrip, but that hasn't stopped me from calling Sea World one of my favorite places to visit. Sea World is most renowned for its Shamu Adventure Show which features Shamu, his friends and the trainers performing stunts that are sure to get you soaked,

## Mosher Award Dinner

The Santa Clara Valley local section held its 24th Harry and Carol Mosher Award event on January 20 at the Basque Cultural Center in South San Francisco. The Awardee was Dr. Paul Anderson of Bristol Myers Squibb (retired). Dr. Anderson spoke on the Past, Present and Future of Pharmaceutical Research. Members of the California local section were invited. About 70 people were present for the dinner and more than 90 attended the lecture.

Some photos of the event are shown here:



George Lechner and Paul Anderson



Vic Althouse, Joe Evans and Carol Mosher



Carol Mosher and Paul Anderson



Paul Anderson and Howard Peters

that is if you are seating in the first fourteen rows! While you are at Sea World I recommend that you take in the following shows, attractions and rides: Dolphin Discovery; Clyde and Seymour in Deep, Deep Trouble; Shark Encounter; Forbidden Reef; Penguin Encounter; Skyride; and the Skytower.

**Wild Animal Park** – No visit would be complete without driving thirty miles



My older brother Ricky and I at Sea World in San Diego, circa 1982

to visit the Wild Animal Park. Nestled in lovely Escondido, visitors get to experience wildlife in a natural like setting. Over 3000 animals from all over the world call the Wild Animal Park home. The best way to take in the sights and the sounds of the animals is to hop on the Wgasa Bush Line Railway, which is a 55 minute narrated monorail tour of the entire park. While at the WAP, you should visit the Heart of Africa where you can feed a giraffe, take in the Bird Show or stroll along the Kilimanjaro Walk.

### Other Places to Visit

- Balboa Park
- Star of India
- Seaport Village
- San Diego One-Hour Harbor Cruise
- Cliffs of La Jolla – La Jolla, CA
- The Casbah – San Diego's ultimate music scene
- Ocean Beach – Home to the nation's longest pier.
- Legoland – Carlsbad, CA

## Help Teach Interviewing Skills Become a Student Career Coach

Volunteers will soon be trained to provide workshops on campuses to help undergraduate students with interviewing skills and resume preparation. Volunteer opportunities include the following:

- Become a coach
- Help with set-up on campuses
- Organize materials, supplies and food for student workshops
- Help advertise workshops
- Work with students on resumes – either face-to-face or via e-mail

Thank you to those who have

already expressed interest; you will be contacted regarding exact times and locations for the volunteer training. If you are interested in being a part of the program, or if you have questions or suggestions, please contact Bonnie Charpentier at [bcharpentier@genitope.com](mailto:bcharpentier@genitope.com).

As of press time, the exact times and locations for the volunteer training have not been finalized. Further details will appear on the Section website at [www.scvacs.org](http://www.scvacs.org).



## Public Relations

Are you interested in communications, understanding and strengthening the public perception of chemistry, developing partnerships with other organizations or are you just passionate about science? If so, we need you to be a part of the Public Relations Committee to help generate new ideas, to build relationships with the media, and to find better ways to get positive messages about chemistry to the public. The more people we have involved, the more fun it will be. Please contact Bonnie Charpentier at [bcharpentier@genitope.com](mailto:bcharpentier@genitope.com) or phone 650-472-2142.

## CHEMPLOYMENT ABSTRACTS MARCH 2005

### EMPLOYMENT ABSTRACT 3772

*Position Title:* Senior Research Associate, Medicinal Chemistry

*Job Description:* Synthesize & optimize novel compounds of therapeutic interest; employ syn org chem, including isolation, purification & structural characterization utilizing modern spectroscopic techniques; conduct frequent presentations & prepare written reports to communicate results to the Medicinal Chemistry project team; utilize PC based software such as chemical databases & literature searching tools to aid in the synthesis of potential drug candidates.

#### QUALIFICATIONS DESIRED

*Education:* BS in organic chemistry  
*Experience:* 2-5 yrs with BS or 0-2 years with MS in org chem. Proven synthetic org chemistry. Characterize compounds using spectroscopic techniques (NMR, LCMS, IR, UV). Knowledge of chromatographic separation techniques (flash, HPLC)

#### LOCATION, SALARY AND MAIL ADDRESS

*Location:* Fremont, CA.

*Salary:* Open

Application Instructions: Qualified candidates are encouraged to submit a resume and complete personal profile by visiting <http://www.sciosinc.com/scios/jobs> and clicking on "Create/Modify Your Careers Profile" Equal Opportunity Employer

### CHEMPLOYMENT ABSTRACT 3773

*Position Title:* Physical Sciences Full-time Tenure Track Instructor

*Job Description:* Assignments for this position may include lecture or laboratory instruction in two or three disciplines within the division. Primary assignments will be in Paso Robles.

#### QUALIFICATIONS DESIRED

*Education:* BS and MS in a field of chemistry  
*Experience:* Min. quals. in 2 of 3 of the disciplines: chemistry, chem engineering, biochem, chem physics, mol biology, geo-chemistry, geology, geo-physics, palenontology, meteorology, physics, oceanography, or earth sciences. Interest & experience in innovation designed to enhance learning, including developing lab activities & using multimedia/computer instruction.

#### LOCATION, SALARY, MAIL ADDRESS

*Location:* San Luis Obispo, Paso Robles (Primary), Arroyo Grande, Nipomo,  
*Salary:* \$39,452-\$56,096

*Employer Description:* The Physical Sciences Division is composed of the Chemistry, Geology, & Physics/Astronomy disciplines.

Application Instructions: For an application and complete job announcement please visit our website at: [www.cuesta.edu](http://www.cuesta.edu); call 805-546-3129; or write: P.O. Box 8106, San Luis Obispo, CA 93405-8106. (A complete application package must be received in Human Resources by the deadline of 2/28/04.)

### CHEMPLOYMENT ABSTRACT 3774

*Position Title:* RESEARCH ASSOCIATE Medicinal Chemistry

*Job Description:* As a member of our Medicinal Chemistry team, you will work as part of an interdisciplinary drug discovery effort involving several research groups.

#### QUALIFICATIONS DESIRED

*Education:* A Bachelor's degree with 2+ years of industrial experience or a Master's degree is required.

*Experience:* Excellent skills in practical organic synthesis are essential and familiarity with modern purification techniques, NMR, HPLC, and LCMS will be expected.

#### LOCATION, SALARY, MAIL ADDRESS

*Location:* South San Francisco, CA

*Employer Description:* Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

Application Instructions: To apply, please go to [www.theravance.com](http://www.theravance.com) and reference Job 03-032. EOE

### CHEMPLOYMENT ABSTRACT 3775

*Position Title:* Quality Control. Microbiology Manager

*Job Description:* Supervise microbiological testing in support of cGMP manufacturing at VaxGen facilities, including in-process and release microbiological testing of raw materials, bulk substances, and final product.Coordinate environmental monitoring activities such as validation of the facilities critical systems and routine monitoring.

#### QUALIFICATIONS DESIRED

*Education:* M.S. in relevant scientific field  
*Experience:* M.S. degree and 10+ years of experience in pharmaceutical microbiology with 5 years or more in management. Excellent communication and writing skills are essential.Strong knowledge of GMP and FDA, USP and European regulations related to environmental monitoring, clean room operations and critical utilities.

#### LOCATION, SALARY, MAIL ADDRESS

*Location:* South San Francisco, CA  
*Employer Description:* VaxGen, Inc., incorporated 1995, is a biopharmaceutical company engaged in the development, manufacture and commercialization of biological products for the prevention and treatment of serious human infectious disease.

Application Instructions: Please send resume to [jobs@vaxgen.com](mailto:jobs@vaxgen.com) or to VaxGen, Inc. Human Resources, 1000 Marina Blvd., Suite 200, Brisbane, CA 94005. Fax: 650-624-1084.

### CHEMPLOYMENT ABSTRACT 3776

*Position Title:* Senior Research Associate/ Research Investigator, Medicinal Chemistry

*Job Description:* Synthesize novel compounds of therapeutic interest. Employ synthetic organic chemistry, including multi-step synthesis, isolation, purification & structural characterization utilizing modern spectroscopic & analytical techniques such as NMR, IR, MS, HPLC.

#### QUALIFICATIONS DESIRED

*Education:* BS in org chem with 3-5 years exp, or an MS with 2 years of experience  
*Experience:* Experience as a synthetic org chemist. Experienced in characterization of compounds using spectroscopic techniques (NMR, LCMS, IR) and working knowledge of chromatographic separation techniques (flash, HPLC). Able to work independently and in team environment. good problem solving, communication skills;able to present and prepare written reports

#### LOCATION, SALARY, MAIL ADDRESS

*Location:* South San Francisco, CA

*Salary:* Depends of experience

*Employer Description:* Portola Pharmaceuticals, Inc., founded in 2003, is a biopharmaceutical company focused on the discovery and development of novel therapeutics for the treatment and prevention of severe cardiovascular diseases.

Application Instructions: Send resumes to Portola Pharmaceuticals, 270 E Grand Ave., So. San Francisco, CA 94080 or [careers@portola.com](mailto:careers@portola.com) Reference Job #acs 405 We are an equal opportunity employer

### CHEMPLOYMENT ABSTRACT 3777

*Position Title:* Medicinal Chemistry Research Associates

*Job Description:* Genentech's Medicinal Chemistry Department has three exciting research opportunities available in our South San Francisco facility.

#### QUALIFICATIONS DESIRED

*Education:* A BS or degree in Chemistry  
*Experience:* Strong interpersonal and organizational skills along with 0-8 years experience in organic, medicinal, or process chemistry.

#### LOCATION, SALARY, MAIL ADDRESS

*Location:* South San Francisco, CA

*Description of Employer:* Genentech is a leading biotechnology company that discovers, develops, manufactures and commercializes biotherapeutics for significant unmet medical needs. Genentech's Research department comprises more than 500 scientists, who consistently publish between 250 and 300 scientific papers a year and are among the top researchers in the world in terms of total citations. Genentech researchers have secured more than 4,300 patents worldwide (with 5,000 more pending).

Application Instructions: We offer one of the most comprehensive benefits packages in the industry. Our culture emphasizes working hard, working together and sharing rewards. To learn more about these opportunities and to apply online, please visit our website at <http://www.gene.com/careers/>. We are an equal opportunity employer.

### CHEMPLOYMENT ABSTRACT 3778

*Position Title:* Analytical and Separations Chemist

*Job Description:* Develop analytical and purification methods to assist drug discovery efforts in Research.

#### QUALIFICATIONS DESIRED

*Education:* Ph.D. in Analytical Chemistry or M.S. in same with equivalent industrial experience.

*Experience:* Substantial experience in HPLC as it relates to determination of physicochemical information, its relation to biological problems and preparative purification is highly desired.

#### LOCATION, SALARY, MAIL ADDRESS

*Job Location:* South San Francisco, CA

*Salary:* Competitive salary and benefits

*Employer Description:* Elan Pharmaceuticals is a mid-size biotech with both biologicals and small molecule programs to address CNS and severe pain therapies. See our website for information on our two recently approved products.

Application Instructions: [www.elan.com/careers/jobsearch/](http://www.elan.com/careers/jobsearch/), Research in SSF, job posting # 51510011B

### CHEMPLOYMENT ABSTRACT 3779

*Position Title:* Research Associate, Medicinal Chemistry

*Job Description:* Responsibilities include: Plan and execute multi-step organic synthesis of target compounds. Optimize lead compounds using traditional medicinal chemistry or parallel synthesis methodology. Purify and characterize synthesized compounds using chromatographic and spectroscopic techniques, such as flash column, TLC, HPLC, NMR, and MS.

#### QUALIFICATIONS DESIRED

*Education:* BS in Chemistry or MS in Synthetic Organic Chemistry/Medicinal Chemistry  
*Experience:* At least one-year laboratory experience in synthetic organic chemistry. Hands-on experience with modern chromatographic and spectroscopic methods. Experience in scale-up synthesis is a plus.

#### LOCATION, SALARY, MAIL ADDRESS

*Job Location:* Santa Clara, CA

*Employer Description:* GalileoPharma is an emerging pharmaceutical company focused on discovering and developing novel anti-inflammatory drugs whose unique attributes are their action at redox targets.

#### Application Instructions:

Please submit your resume and a letter of introduction to [careers@galileoPharma.com](mailto:careers@galileoPharma.com)  
An Equal Opportunity Employer.

# CHEMPLOYMENT ABSTRACTS MARCH 2005

## CHEMPLOYMENT ABSTRACT 3780

**Position Title:** Lecturer (quarterly part time)  
**Job Description:** Teach the laboratory portion of one course for science majors, General Chemistry III (Chemistry 13) during the spring quarter of 2005 (first day of classes is March 29, last day of classes is June 2).

**QUALIFICATIONS DESIRED**  
**Education:** Ph.D. in chemistry  
**Experience:** Appropriate academic or related background; prior college teaching exp is highly desirable.  
**LOCATION, SALARY, MAIL ADDRESS**  
**Location:** Santa Clara, CA  
**Salary:** \$3,520  
**Employer Description:** Santa Clara University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity, and, in this spirit, particularly welcomes applications from women, persons of color, and members of historically underrepresented groups.

**Application Instructions:** By March 11, submit a curriculum vitae and copies of undergraduate and graduate transcripts, and have two letters of recommendation sent to Dr. Patrick Hoggard, Chair, Department of Chemistry, Santa Clara University 500 El Camino Real, Santa Clara, CA 95053. For further information, see scu.edu/chemistry.

## CHEMPLOYMENT ABSTRACTS 3781

**Position Title:** Lecturer (quarterly part time)  
**Job Description:** Teach the laboratory portion of one course for nonscience majors, Chemistry and the Environment (Chemistry 1) during the spring quarter of 2005 (first day of classes is March 29, last day of classes is June 2).

**QUALIFICATIONS DESIRED**  
**Education:** Ph.D. in chemistry  
**Experience:** Appropriate academic or related background in environmental chemistry; prior college teaching experience is highly desirable.  
**LOCATION, SALARY, MAIL ADDRESS**  
**Location:** Santa Clara, CA  
**Salary:** \$2,200 for lecture and lab together  
**Employer Description:** Santa Clara University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity, and, in this spirit, particularly welcomes applications from women, persons of color, and members of historically underrepresented groups.

**Application Instructions:** By March 11, submit a curriculum vitae and copies of undergraduate and graduate transcripts, and have two letters of recommendation sent to Dr. Patrick Hoggard, Chair, Department of Chemistry, Santa Clara University 500 El Camino Real, Santa Clara, CA 95053. For further information, see scu.edu/chemistry.

## CHEMPLOYMENT ABSTRACT 3782

**Position Title:** Manager, API Develop & Manufacturing  
**Job Description:** Manage activities with the development & manufg of active pharm. ingredients (API) at contract manufg vendors. Design & execute proc develop & technol transfer plans for APIs; manage relation between API vendors & CVT functions; optimize API manufg proc & scale-up strategies; generate sections for the drug substance for regulatory submissions (IND/NDA); develop reports for PAI purposes; & identify & implement systems & processes to reduce development cycle times & increase manufg & operation efficiencies.

**QUALIFICATIONS DESIRED**  
**Education:** PhD + 2-4 yrs exp. MS + 3-5 yrs exp or a BS + 6 yrs exp (org chem a +)  
**Employer Experience:** Knowledge of CMC-related activities for API develop & manufg, familiarity with modern syn methodologies, & a working knowledge of GMPs for API manufg. Will require some travel.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** Palo Alto, CA  
**Salary:** competitive salaries & an excellent benefits package  
**Employer Description:** CV Therapeutics, Inc. is engaged in the discovery & development of novel small molecule drugs for the treatment of chronic cardiovascular diseases.

**Application Instructions:** email your resume to recruiting@cvt.com, or fax to (650) 475-0502.

## CHEMPLOYMENT ABSTRACT 3783

**Position Title:** Analytical Chemist/Senior Research Associate - Medicinal Chemistry  
**Job Description:** Genentech's Medicinal Chemistry department has an exciting opportunity for an Analytical Chemist to develop and utilize analytical methods for characterization of synthetic small molecule therapeutics.

**QUALIFICATIONS DESIRED**  
**Education:** MS in Analytical Chemistry  
**Experience:** A motivated team player with good communication skills along with 5-10 years relevant experience. The candidate must have experience with compound purity assessment using HPLC and capillary electrophoresis. Experience with compound solubility, stability, pHka determination, water content, residual solvent, chiral purity and counter ion analysis would also be helpful.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Salary:** Genentech offers one of the most comprehensive benefits packages in the industry.  
**Employer Description:** Genentech is consistently recognized as one of the top companies to work for in the United States.  
**Application Instructions:** For immediate consideration, visit [www.gene.com/careers](http://www.gene.com/careers) and reference req. #1000004905. Genentech is an equal opportunity employer.

## CHEMPLOYMENT ABSTRACT 3784

**Position Title:** Research Associate - Medicinal Chemistry (3 positions)  
**Job Description:** Genentech is seeking three highly qualified and motivated organic/ medicinal chemists to work in our South San Francisco facility.

**QUALIFICATIONS DESIRED**  
**Education:** A Bachelors and/or Masters degree in Chemistry or related discipline  
**Experience:** Strong interpersonal and organizational skills along with 0-8 years experience in organic, medicinal, or process chemistry.  
**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Employer Description:** For over 28 years, Genentech has been at the forefront of the biotechnology industry, using human genetic information to discover, develop, commercialize and manufacture biotherapeutics for significant unmet medical needs.

**Application Instructions:** Genentech offers one of the most comprehensive benefits packages in the industry. To learn more about these opportunities and to apply online, please visit our website at [www.gene.com/careers](http://www.gene.com/careers). Genentech is an equal opportunity employer.

## CHEMPLOYMENT ABSTRACT 3785

**Position Title:** Research Associate, Medicinal Chemistry  
**Job Description:** As a member of our Medicinal Chemistry team, you will work as part of an interdisciplinary drug discovery effort involving several research groups.

**QUALIFICATIONS DESIRED**  
**Education:** A Bachelor's degree with 2+ years of industrial experience or a Master's degree is required.  
**Experience:** Excellent skills in practical organic synthesis are essential and familiarity with modern purification techniques, NMR, HPLC, and LCMS will be expected.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Employer Description:** Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

**Application Instructions:** To apply, please go to [www.theravance.com](http://www.theravance.com) and reference Job 03-032, or email resume to [resume@theravance.com](mailto:resume@theravance.com).

## CHEMPLOYMENT ABSTRACT 3786

**Position Title:** Scientist, Medicinal Chemistry  
**Job Description:** As part of our integrated, multidisciplinary discovery team, you will analyze SAR, propose target molecules, evaluate different routes, and synthesize molecules for biological assays. The successful candidate will work closely with scientists from our biochemistry, pharmacology and pharmacokinetics groups to efficiently evaluate and progress lead compounds.

**QUALIFICATIONS DESIRED**  
**Education:** Candidates should have a Ph.D. in Synthetic Organic Chemistry; post-doctoral and/or industrial experience is preferred.  
**Experience:** Excellent verbal and written communication skills are essential. We offer a stimulating, challenging and productive discovery environment with a strong commitment to developing the medicinal chemistry skills of our people.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Employer Description:** Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

**Application Instructions:** To apply, please go to [www.theravance.com](http://www.theravance.com) and reference Job 04-057, or email resume to [resume@theravance.com](mailto:resume@theravance.com).

## CHEMPLOYMENT ABSTRACT 3787

**Position Title:** Associate Scientist/Scientist, Analytical Chemistry  
**Job Description:** You will be responsible for methods development, sample analysis, and data analysis using LC/MS & LC/MS/MS to support pharmacokinetic studies of our new drug candidates, assist with metabolism studies, and continue ongoing collaborations with Contract Research Organizations (CRO's). The work with CRO's will involve collaboration/oversight of method development, validation, and sample analyses of GLP studies.

**QUALIFICATIONS DESIRED**  
**Education:** Candidates must possess a BS/MS or Ph.D in analytical chemistry, biochemistry, or related discipline along with relevant work experience (pharmaceutical/biotechnology industry preferred).  
**Experience:** The ideal candidate would be a practicing bioanalytical chemist looking to make a transition out of the laboratory into a mixed mode function

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Employer Description:** Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

**Application Instructions:** To apply, please go to [www.theravance.com](http://www.theravance.com) and reference Job 04-059, or email resume to [resume@theravance.com](mailto:resume@theravance.com).

## CHEMPLOYMENT ABSTRACT 3788

**Position Title:** Senior Research Associate/Associate Scientist, Development Analytical  
**Job Description:** Will be responsible for both laboratory work, and leadership roles. Would be able to serve as the analytical lead for a compound under development. This includes responsibility for developing and validating analytical methods for a drug candidate and its related substances. Both research and development activities in support of a project will be required.

**QUALIFICATIONS DESIRED**  
**Education:** Requires a MS in anal chem or related area with 4 or more years of exp, or a BS in analytical, organic, or biochem with at least 6 years of relevant exp, preferably in the pharmaceutical industry.  
**Experience:** Experience with GLP/GMP requirements is desired. This person should keep abreast of state-of-the-art analytical methodology. Must be able to work in compliance with regulatory requirements and internal guidelines and SOPs. Data analysis and interpretation of the results for reports in a timely manner is expected. Also requires excellent written and oral communication skills.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** South San Francisco, CA  
**Employer Description:** Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

**Application Instructions:** To apply, please go to [www.theravance.com](http://www.theravance.com) and reference Job 04-055 or email resume to [resume@theravance.com](mailto:resume@theravance.com).

## CHEMPLOYMENT ABSTRACT 3789

**Position Title:** Research Associate, Discovery  
**Job Description:** Must have BS/MS in Chemistry, with a strong background in Natural Products Chemistry. Specific expertise in natural product separation, isolation and characterization is a plus. This individual will work closely with internal and external project teams spanning discovery through development stages.

**QUALIFICATIONS DESIRED**  
**Education:** BS/MS in Chemistry  
**Experience:** Minimum of 2 years of experience in small molecule drug discovery. Demonstrated expertise in natural product isolation and characterization. Background in biochemistry, organic, physical and natural products chemistry desired.

**LOCATION, SALARY, MAIL ADDRESS**  
**Job Location:** Santa Clara, CA  
**Employer Description:** Galileo Pharmaceuticals Inc. is a San Francisco Bay Area early stage pharmaceutical company focused on the discovery and development of novel small molecule therapeutics targeting inflammation.

**Application Instructions:** Please submit your resume and a letter of introduction to [careers@galileopharma.com](mailto:careers@galileopharma.com)

## National ACS Meeting - Fun Run

Healthy scientists are happy scientists. Stretch your tired legs and join fellow chemists for the fourth annual Younger Chemists Committee, 5k Run/1.5 Mile Walk on Monday, March 14th at 6:30 a.m. Anyone and everyone are encouraged to participate. The Fun Run is co-sponsored by ACS Publications Division, Committee on Minority Affairs, Society Committee on Education and Women Chemists Committee, San Diego Convention Center. Pre-race meeting location is at the rear entrance of the San Diego Marriott. REGISTER EARLY TO ENSURE ENTRY! Download the registration form located on the [www.chemistry.org](http://www.chemistry.org) web site listed under ACS Meeting - Social Events and return the completed entry form with registration fee to: ACS, Department of Diversity Programs, 1155 16th Street, N.W., Washington, D.C. 20036, Customer Service Inquires: phone: (800) 227-5558, ext. 6122, e-mail [yccfunrunwalk@acs.org](mailto:yccfunrunwalk@acs.org), or fax (202) 776-8003.



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#### MARCH 2005 NEWSLETTER TOPICS:

An Overview of OLED Technology  
March Dinner Meeting Reminder  
April Dinner Meeting  
Chair's Message  
Chemistry Blog of the Month  
Mosher Award Dinner  
Editor's Corner  
Help Teach Interviewing Skills Become  
a Student Career Coach  
Public Relations  
National ACS Meeting - Fun Run

#### CHEMPLOYMENT ABSTRACTS

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### Alternate Councilors

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### Newsletter

Editor: **Carlene Freeman** 650-513-5000 editor@scvacs.org

### ChemPloyment Abstracts

Director: **Shirley B. Radding** 408-246-2564 sbradding@sbcglobal.net

## FUTURE MEETINGS

**Mar 13-17** ACS National Meeting  
San Diego, CA

**Mar 16** Bioscience Forum  
BIOSEEK  
Stanford University

**Mar 24** SCV Dinner Meeting  
Electroreception in Elasmobranchs  
Palo Alto, CA

**Mar-Apr** Chemistry Olympiad Local Section  
Qualifying

**Apr 16** Chemistry Olympiad National Exam  
Santa Clara University

**Apr 21** SCV Dinner Meeting  
An Overview of OLED Technology  
Santa Clara, CA



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