SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING
EXPO DAY at PETCO Park
Saturday, March 4, 2017
https://www.lovestemsd.org/

The San Diego Festival of Science and Engineering is a ten-day educational experience including interactive demonstrations, hands-on activities and dynamic speakers to engage kids and families in all that encompasses STEM (science, technology, engineering and math). The week kicks off with its largest event, EXPO Day, on March 4, 2017, at PETCO Park. EXPO Day is free and open to the public.

If you are interested in volunteering, please contact Laleña Janke at lalenaskye@gmail.com

THE ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR
Balboa Park Activity Center, 2145 Park Blvd.
March 14 - 19, 2017
Judging Day, Wednesday, March 15, 2017
http://www.gsdsef.org/

Participate in the Fair!
Students in grades 7-12 attending school in San Diego or Imperial Counties are eligible to be considered for the Greater San Diego Science and Engineering Fair. All projects must be screened for review to qualify for the GSDSEF. For more important information please see: http://www.gsdsef.org/participate/

If you are interesting in volunteering, please contact Ken Poggenburg at jkp135@att.net
Dear ACS Members,

I’m thoroughly heartened by the activity of our Local Section! So far this year we have enjoyed a couple of outstanding seminars (Robert Blackledge in January, Jie Jack Li in February), and we are gearing up for two phenomenal outreach events during the month of March. I’ll have more to say about these – read on!

I want to remind you that the SDACS Executive Committee meets monthly. Guests are always welcome! Whether you have an event proposal or you simply want to lend a hand, please join us! And, if you prefer, you may join us remotely via a web-based videoconferencing tool we have begun using. Contact me for details!

As I mentioned last month, one of my priorities is to increase member engagement. I have found that involvement breeds commitment. It has been exciting for me to involve new volunteers in recent events. With just a little direction, a rookie volunteer can make a valuable contribution. Would you like to join our team? We’ll be happy to find a role or responsibility that suits you!

In March, there are two outreach events for which you should consider volunteering:

San Diego Festival of Science & Engineering EXPO DAY at PETCO Park, Saturday, March 4, 2017. Booth volunteers needed! This event runs from 10AM to 5PM. If you would like to help with science demos and interact with kids, contact Laleña Janke (lalenaskye@gmail.com). Come out for an hour or two! No need to commit your whole day to this! (Although you can if you like!)

Greater San Diego Science & Engineering Fair at Balboa Park, March 14-19, 2017. In particular, we need volunteer judges to help us on Wednesday, March 15, from 11:30AM to 3PM. Help us identify the best and brightest young student scientists by judging at this science fair! Contact Ken Poggenburg (jkp135@att.net) to get involved!

Finally, while I’m on the theme of outreach, it is appropriate that I highlight Dr. Rebecca Bowers-Gentry, our 2017 Outreach Volunteer of the Year. On page 6 in this newsletter, you can read how much of an impact Becca has been making in the San Diego community, and agree with me that this award is very well deserved indeed!

Our next Executive Committee Meeting will take place on Tuesday, March 7. You are welcome to join us – either in person or remotely. Let’s make 2017 a memorable year for the San Diego Local Section of the ACS!

Jonathan W. Lockner, Ph.D.
2017 Chair, San Diego Section
American Chemical Society
E-mail: jlockner@sandiegoacs.org
Web: www.sandiegoacs.org

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**NON-PROFIT ORGANIZATIONS!**

Does your non-profit organization have an upcoming event that might be of interest to members of the ACS – San Diego Section? If so, please send your announcement to our 2017 Chair, Jonathan Lockner at jlockner@sandiegoacs.org. Once approved, Jonathan will see that your announcement is published on our website (www.sandiegoacs.org) and, if received by the 20th of the month before the event, in *The San Diego Chemist* newsletter. This is a free service of the ACS – San Diego Section. Take advantage of it!

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**ATTENTION ADVERTISERS**

Did you know that *The San Diego Chemist* is the only monthly e-newsletter that targets chemists and chemical engineers in San Diego and Imperial Counties? As soon as our newsletter is uploaded on www.sandiegoacs.org a separate notification is sent to the 2,500 members of the ACS-San Diego Section, each potential customer for your products and services! **Quick turnaround**: Ad copy submitted by the 20th of each month will be published by the end of that month.

For more information, please contact: Renate Valois, renae@sandiegoacs.org

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**THE SAN DIEGO CHEMIST**, the official newsletter of the San Diego Section of the American Chemical Society, published on a monthly basis, can be viewed at http://www.sandiegoacs.org/newsletter/.

All contents are published at the discretion of the Section’s Executive Committee. Events of interest to chemistry professionals in the community may be included in the events calendar as space permits and are subject to editing for brevity. Advertisements and announcements from the chemistry community are accepted at published rates. The deadline for items submitted is the 23rd of the month for publication by the end of that month.

**Advertisers:** Ad prices as of January 1, 2015:

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Discounts will be available for issues not shown
Please send your jpg to:

Renate Valois at renae@sandiegoacs.org

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**SECTION E-MAIL LISTSERVER!**

Get up-to-the-minute reminders of local events and develop dialogs with your fellow members!

To subscribe to our moderated listserver:

1. Send an e-mail with SUBSCRIBE TO LISTSERVER in the subject line, and your name and e-mail in the body of the message to Ken Poggenburg at jkp135@att.net.

2. If you receive a message from the postman, reply to confirm that you wish to be added to the list, otherwise it will not take effect.

3. You will receive reminders approx. 5-7 days prior to upcoming events and messages of general interest to members.

4. To post topics for discussion, or informational items to the listserver members, send the message to sandiego-chemist-l@ucsd.edu.

5. If the moderator approves the post, it will be sent to the members.

**NOTE:** That is the letter “l”, not the number "one" following the word "chemist".

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**EXECUTIVE COMMITTEE MEETING DATE 2017**

6:00 ~ 8:00 pm

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Meetings will be held at:

9381 Judicial Drive, Suite 160
San Diego, CA 92121
The San Diego Section of the American Chemical Society would like to thank our Corporate Sponsors. Here are a few examples of our annual outreach programs that are made possible by their generous donations:

**Mad Science** - Stage demonstrations for 4th and 5th graders which make science fun for kids! Last year the program was viewed by over 8000 students in low-income areas and from military families.  
**ChemExpo** - A science event for middle and high school students held annually for the past 28 years. It features live stage demonstrations and interactive booths that teach kids about applied science. Last year over 1000 local students participated!  
**EarthFair** - We participate in the world’s largest free annual environmental fair, held in Balboa Park.

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**CONSIDER SPONSORSHIP OF THE ACS SAN DIEGO SECTION**

The San Diego Section of the ACS is looking for organizations that are committed to advancing science and education in the greater San Diego area by providing financial support. There are several ways to get involved, and each one comes with its own benefits and privileges. **For further information please contact Jonathan Lockner at jlockner@sandiegoacs.org**

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**ORGANIZERS NEEDED!**

The San Diego Section of the American Chemical Society is looking for volunteers to organize an ACS Western Regional Meeting. Exact dates are flexible and yet to be determined, but it will be held between 2018 and 2020. We are currently looking to fill the positions of General Meeting Chair and Program Chair(s). If you are organized, work well with others, and want to expand your professional network to a national scale, you may be a great fit for either of these positions. The **General Meeting Chair** will be responsible for overseeing the planning of the meeting venue and logistics while the **Program Chair(s)** will fill events and speaker lists. Location, duration and desired attendance are based on the vision of the organizers. If you have an idea for a large meeting held here in San Diego, this is your way to make it happen.

For more information please contact:

Jonathan Lockner  
2017 Chair  
San Diego Section of the American Chemical Society  
jlockner@sandiegoacs.org

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**BE A CHEMISTRY AMBASSADOR!**

Volunteer to put a human face on science and help connect chemistry with everyday life! Promote chemistry to children, your community, lawmakers and others.

**Volunteer Opportunities**

Activities and ideas for getting involved in outreach. Explore to find activities that fit your interests and schedule!

For more details, please see: [https://www.acs.org/content/acs/en/volunteer/chemambassadors.html](https://www.acs.org/content/acs/en/volunteer/chemambassadors.html)

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**VOLUNTEER WITH KIDS & CHEMISTRY**

Kids & Chemistry is a community-based program that brings together scientists and children to do hands-on science activities. Volunteers include ACS members, ACS Student Chapters, and corporate groups. Volunteer efforts can be implemented as a full program administered by an ACS local section or by an individual as a one-time classroom visit. The program can also be incorporated into an existing corporate outreach/education program, or serve as the focal point for a larger mentoring program.

For more details, please see: [http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html](http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html)

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**ACS LEADERSHIP DEVELOPMENT COURSES OFFERED ONLINE**

Register for an **On Demand Leadership Development course** and learn critical leadership skills at your own pace. With a Leadership Development course, you'll learn how to avoid misunderstandings and awkward confrontations or be trained on how to help your employees and colleagues become more effective and much more. Learn more about On Demand courses at [www.acs.org](http://www.acs.org).

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**CHEMISTRY JUDGES NEEDED**

Judging by professional societies at the Annual Greater San Diego Science & Engineering Fair will take place on **Wednesday, March 15th, at 12:15 pm** in Balboa Park. If anyone is able to help choose exhibits for our Section’s chemistry awards or wants more information, please contact Ken Poggenburg at [jkp135@att.net](mailto:jkp135@att.net).
A VISIT TO THE CLAUDE "BUD" LEWIS CARLSBAD DESALINATION PLANT

JANUARY 25, 2017

The San Diego Section of the American Chemical Society’s tour of the nation’s largest seawater desalination plant was a great success! It was nice to find out that this plant was the first water infrastructure project in California to have a net carbon impact of zero! The plant achieved this goal by restoring and enhancing the marine environment through the dedication of more than 15 acres of lagoon and oceanfront land in Carlsbad and restored 66 acres of wetlands in south San Diego Bay.

The trip from San Diego to Carlsbad took nearly an hour because of bad traffic. We waited for 20 minutes until all of the 15 people arrived for the sold-out tour. We followed our guide into the plant where we were given hardhats, eye protection, and safety vests to wear. We learned many facts about the processing of seawater. The seawater is filtered to remove any particulates or biological matter and then pumped under high pressure (800-900 PSI) into a reverse osmosis system that uses a membrane to purify water. The plant takes in 100,000,000 gallons from the cooling water intake of the adjacent power plant and releases 50,000,000 gallons of concentrated seawater back into the ocean. The water is so pure after passing once through the semi-permeable membrane that it must be filtered through limestone pebbles in order to replace minerals in the water. Everyone enjoyed an all-you-can-drink free sample at the end of the tour. Delicious! Overall, we had fun asking questions and learning about the new $1 billion dollar facility that produces 50,000,000 gallons of high quality drinking water per day. Also, we are planning for another tour in the near future due to the large number of interested ACS members.

Text: James Caldwell
Photo credits: James Caldwell
The Story of Statins
Jie Jack Li

On Thursday, February 16th, at The Scripps Research Institute, we hosted Jie Jack Li, a prolific research scientist, author, and associate professor of chemistry at the University of San Francisco. Professor Li enlightened us with an overview of the rich history of cholesterol and cholesterol-lowering drugs (with a focus on 'statins') - highlighting their chemistries as well as the interesting personalities of those involved in their discovery.

Cholesterol, and how they are regulated in the human body, have been at the forefront of scientific study since the early 20th century, when Anitschkow first demonstrated the link between cholesterol and cardiovascular disease. Since then, the study of their structure, total synthesis, and physiological impact has yielded more than a dozen Nobel Prizes.

Regulation of cholesterol initially consisted of various approaches, including the use of thyroid and sex hormones, niacin, etc. However, with negative side effects making these treatments impractical, a more mechanistic approach was sought after. It was not until the early 1970s that mevastatin, a competitive inhibitor of HMG-CoA reductase (the enzyme in control of the rate-limiting step of cholesterol biosynthesis), was isolated by Akira Endo. Since then, a number of ‘statins’ have been developed, with a few having exceptional efficacy in reducing cardiovascular disease (e.g., Mevacor, Crestor, and Lipitor to name a few).

With his extensive and first-hand experience in the industry, Li provided a great and lighthearted overview of the pharmaceutical industry and just how painstaking (and often serendipitous) major discoveries can be.

A raffle was also held at the end of the seminar, where three lucky winners were given a copy of one of Li’s many books on heterocyclic chemistry and drug discovery. These books were graciously donated by Wiley.
Becca is a Miramar College faculty member who is 'split' between two departments. She is an important faculty member in the Department of Biological Science who is committed to the biotechnology program. Becca is also involved with the Department of Physical Science and is currently serving as the Chair for that department.

Aside from commitments in these two departments, Becca serves as the coordinator of the Miramar College Science Department’s participation in the San Diego Festival of Science and Engineering: [Science Fun for Kids from 9 to 99](#)!

She also piloted back in 2011 and has served as Director of the [S2 Summer Science Enrichment Program](#) since 2012.

She mentored [SDICCCA interns](#) (2011-2012 Betty Reichard and 2012-2013 Shannon Seidel) and, with one of her current interns, Betty Reichard, currently works as a full-time Instructional Lab Technician for the Biotechnology program.

In conjunction with her biotechnology involvement, Becca served as co-director of the [ARRA Biotech Grant](#) (2009 – 2011) in which she was directly involved.

In collaboration with Dr. Sandra Slika, Director of the [Southern California Biotechnology Center (SCBC)](#), Becca is often involved in biotech boot camps and other biotech workshops throughout the year at Miramar College. ([Bio-Link Program](#)).

Finally, she has been the main person responsible for coordinating [Chem Expo](#) with Miramar College. She helps set up the permits and coordinates the volunteers (from the College) to help with ChemExpo for the past two years. Chem-Expo is a hallmark event during National Chemistry Week. (See Julann Miller or Paul Bruinsma for details.)

She does all of this on her own time. She does the work gladly, with exceeding care. She always puts the welfare and educational experience of the students and public first (Fred Garces).

Text: Fred Garces, Professor, Physical Science, Miramar College
Jonathan Lockner, Adjunct Professor, Chemistry, Miramar College

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**Third Annual ACS-West Coast Analytical Chemistry Symposium**

The **ACS-West Coast Analytical Chemistry Symposium** is a discussion group formed by San Diego analytical chemists in partnership with the San Diego Section of the American Chemical Society (ACS) to provide a scientific forum for open discussion of current and future trends in analytical chemistry and opportunities to present current research, and to interact with like-minded scientists within the San Diego Community.

**SAVE THE DATE**

**When:** Monday, April 10, 2017, from 9:00 am to 4:00 pm

**Location:** Dart NeuroScience, 12278 Scripps Summit Drive, San Diego, CA 92131

**Cost:** Free! Registration link coming soon

**Symposium Format:** Talks throughout the day with a coffee/snack break and lunch in-between. Posters displayed on topics in the area of analytical chemistry.

**Topics include:** Advances in HPLC - formulations and 2-D LC, GC, Mass Spectrometry, NMR, Laser Spectroscopic Methods and SFC.

**CALL FOR POSTERS** - prize awarded again this year for best poster. We welcome posters in the area of analytical chemistry.

Please contact Julann Miller at jmiller@sandiegoacs.org

**Deadline:** March 19th.

**Host:** Dart NeuroScience
San Diego Miramar College
Science Department Presents

Science Month March 2017

Science Fun For Kids 9 to 99
Bring your family and join Miramar College’s science faculty for science fun!

- How to Get DNA from Anything
  You have what you need in the kitchen pantry!

- Sensory Perception
  Make sense of your senses.

- Marine Critters
  Fun with Marine Organisms.

- An Epidemic
  How germs spread.

- Blast Off with Diet Coke and Slime
  Get slimy, and watch a volcano erupt!

- Math Puzzles and Activities
  Give your brain a math workout.

- Interested in the Earth?
  Fun with rocks and minerals!

Join the fun on Saturday, March 11, 2017 from 9 a.m. to 12 noon in Miramar’s state-of-the-art science labs!

Questions:
Dr. Rebecca Bowers-Gentry, rbowersg@sdccd.edu or (619) 388-7241

SDScienceFestival.com
sdmiramar.edu/sciencemonth
Dear Colleague,

The Education Committee of the San Diego Section of the American Chemical Society (ACS) is pleased to announce that we will be participating in the 2017 U.S. National Chemistry Olympiad (USNCO). The primary goals of this program are to stimulate interest and achievement in chemistry among high school students throughout the United States and to provide recognition of outstanding young chemistry students, teachers, and schools.

Students competing in the USNCO are eligible to be selected as national team members to represent the United States in the International Chemistry Olympiad (IChO). For the past thirty three years, the United States has sent a team of four students to the IChO to compete with nations around the world in both theoretical and laboratory examinations over several days with gold, silver, and bronze medals being awarded to the best performers. The IChO also provides students the opportunity to interact with their peers from other countries. This year the international event will be held in Nakhom Pathom, Thailand, July 6-15, 2017.

We encourage your school to participate in this academic Olympiad. All students who participate will be recognized and presented with a certificate; top 150 students receive recognition for outstanding performance at the national level. We hope this recognition will serve to stimulate interest in chemistry and to promote a positive attitude toward chemistry.

A preliminary screening round will occur through the administration of a standardized ACS examination. Students can register (see link below) themselves or via their teachers to take the exam on either Saturday, March 18, 2017, at 9 am or Sunday, March 19, 2017, at 9 am at the University of San Diego in The Shiley Center for Science and Technology – Rooms 129, 130 and 133. The exam lasts approximately 2 hours. Please send students with a pencil and calculator (non-programmable only).

A campus map and driving directions can be found at: http://www.sandiego.edu/about/visit_campus.php. Please direct students and parents to that site.

Registration Information:
To enter students from your school in this competition, please complete and submit an online registration using the link provided below by the due date of February 27, 2017:

https://sandiego.secure.force.com/events/targetx_eventsb__eventsplus_search?type=DEPT-CHEM

Please type all student information. Please remind students that by registering, they are expected to attend, as the rooms, proctors, number of exams purchased, etc. are all based on registration information.

Thank you for helping us to promote chemical education in this country. If you have any questions, feel free to contact me (jschellinger@sandiego.edu). You may also get further information by joining our Facebook page (https://www.facebook.com/USNCO-San-Diego-Section-1807164522906083/ or searching for USNCO San Diego Section).

**Note: Any student may take this preliminary screening exam but students must be U.S. citizens or permanent residents (green card holders) to be invited back to take the U.S. National Exam.

Sincerely,

Joan Schellinger
Chemistry Olympiad Coordinator
San Diego Section, American Chemical Society
Department of Chemistry and Biochemistry
University of San Diego
5998 Alcala Park
San Diego, CA 92110
Treasurer’s Report – Recent expenditures: ~$800 for monthly meeting venue, first $500 installment to JOURNY’s sent and includes acknowledgement to SDACS; total financial assets up ~$50K over same time last year

Committee Needs – Section needs Fundraising Chair

Annual report – Graeme completed activities report and Bill S. completed financial report

San Diego Festival of Science & Engineering – Southwestern College students enthusiastic to participate at Section’s booth

Action: recognize Joanne Um & SWC for Section Outreach Award

Website Design – Communications Committee tasked to develop objectives in redesign and obtain and review quotes to do the work

Social Media – Graeme has started accounts with Twitter, Instagram, & LinkedIn with chemistry themes; aiming toward live Facebook streaming of monthly meetings

Dial-In Attendees to Executive Committee Meeting – Couldn’t get details worked out in time for this meeting

Outreach Volunteer of the Year – Awarded to Rebeca Bowers-Gentry - Miramar College

Section Fellows – Working to complete applications for Tammy Dwyer, John Palmer, Gerard Rosse

Leadership Institute – Six of 10 CA sections represented at the session, submitted the idea of “California helps feed the World” as a joint seminar as an IPG submission – topic of how chemistry affects food science in each local section

Third Analytical Symposium – Set for Apr. 10, venue Dart, expecting as in the past to have sufficient sponsors to cover costs and capacity registration

Joint SDACS / American Association of Pharmaceutical Scientists – San Diego Section tasked with advertisement, proposed for late May (last meeting 5 of 35 attendees from San Diego although meeting was held in San Diego)

SABPA / SDACS – No replacement for David at this time to lead the programs, so program may be suspended

Poseidon Desalination Plant Tour – Excellent tour, sand filter before membrane treatment that generates considerable sludge, costs for water product about twice that of imported water

Jan. Monthly Meeting – Robert Blackledge, (part of National Speakers Bureau but no charge to Section because he is local) with topic of Landis athletic doping investigation; large attendance, excellent venue, good example of utility of chemistry for lay persons

Feb. Monthly Meeting - Jie Jack Li, USF, scheduled for Keck Auditorium on Feb 16, lecture first at 6 p.m. followed by socializing, Wiley publishers providing door prizes of his books, 41 registered currently

Greater San Diego Science and Engineering Fair – Need judges Mar. 15, judging to start at noon, decisions for awards need to be done by 3 p.m.

Chemistry Olympiad – Joan Schellinger is organizing local preliminary testing at USD, Mar 18-19, announcements have been sent to local HS, need volunteer proctors

Project SEED – Identified Title 1 schools in San Diego Unified Schools, got three volunteers to serve as mentors, two students arranged for USD, three for UCSD; arrangements at TSRI uncertain; some industry interest such as Janssen Labs for next year

Motion: Provisionally authorize $700 per student for three additional Project SEED students - Approved unanimously

WCC – Mireille Kamariza, Graduate of Mesa College now at Berkeley; propose to invite her to come to present monthly meeting, target for Fall

Advocacy Event featuring Congressman Peters - Scheduled for July 5; intend to partner with the Society for Women in Graduate Studies at UCSD

ExComm Meeting Schedule – Need to move meetings to Apr. 11 (National Meeting) and Jul. 11 (to avoid July 4th holiday)

Next meeting: Mar. 7, 2017
**CHEMPSLOYMENT 787**

**QC CHEMISTRY OPPORTUNITIES** -- This is your chance to join a talented and innovative QC chemistry team within a highly collaborative environment that fosters your personal and professional growth, and one in which your talents will shine.

We seek your skillsets in wet chemistry and assay testing within a biotech/biopharma environment. Added pluses you can bring include an analytical chemistry degree, and HPLC and MS experience. Our other QC Chemistry opportunities focus on performing wet chemistry compendial assays, and execution of assay qualifications, transfers, validations and verifications.

The Sr. Technical Writer focuses on investigations, so you will need expertise in writing deviations and conducting investigations, serving as the SME in this area, with a focus on stability and chemistry.

**(SEE BELOW)**

**Now is an exciting time to join Ajinomoto Althea** -- a best practices organization and leading CMO, voted one of the 100 fastest growing private companies (SDBG) for 5 consecutive years. Our reputation is one of a strong track record in quality, superior service and offering continual employee development opportunities spanning the spectrum. We continually seek top talent in individuals who share our values and mission to make a lasting difference to countless patients for years to come.

We are experiencing major growth (40%+ since January 2016) and have added an entirely new 2nd shift to keep up with this expansion. Ajinomoto Althea is headed by leadership whose diverse and successful backgrounds continue a reputation which has stood the test of time.

Ajinomoto Althea, Inc. is a fully integrated contract development and manufacturing organization providing clinical drug process development and manufacturing services to global biotechnology and pharmaceutical companies. We are a leading expert in aseptic filling of drug product in vials and syringes, and our focused expertise and capabilities make us one of the industry’s top leaders for cGMP microbial fermentation of recombinant proteins and plasmid DNA. In conjunction with these manufacturing operations, Althea offers comprehensive development services including: upstream and downstream process development, complex formulations, lyophilization cycle, analytical development, product release and ICH-compliant stability testing. Our talented team works with our clients to advance their innovative product pipelines.

**QC Associate Chemistry:**  [http://chj.tbe.taleo.net/chj04/ats/careers/requisition.jsp?org=ALTHEATECH&cws=1&rid=619](http://chj.tbe.taleo.net/chj04/ats/careers/requisition.jsp?org=ALTHEATECH&cws=1&rid=619)


**Sr. Assistant, QC Chemistry:**  [http://chj.tbe.taleo.net/chj04/ats/careers/requisition.jsp?org=ALTHEATECH&wcs=1&rid=618](http://chj.tbe.taleo.net/chj04/ats/careers/requisition.jsp?org=ALTHEATECH&wcs=1&rid=618)


**TO APPLY:** Click on the opportunity(s) you wish to submit above. You may also email Laurie De Sio directly at: [laurie.desio@altheacmo.com](mailto:laurie.desio@altheacmo.com)

**Awards:**  [http://altheacmo.com/about/awards/](http://altheacmo.com/about/awards/)


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**CHEMPSLOYMENT 788**

**Position Title**
R&D Nucleotide and Small Molecule Scientist - Chemistry 2017 MA_01

**Job Description**
Independently and as part of a team, design, implement, analyze and execute laboratory experiments leading to the development of new nucleotide triphosphate analogs and small molecule linkers.

Provide cross disciplinary support and expertise to accomplish team goals as directed.

Strong initiative and ability to take ownership of challenging problems.

**Required Experience & Skills:**
- Experience in multi-step organic synthesis design, execution and optimization.
- Hands on successful experience in multistep heteroaromatic small molecule and nucleoside analogs synthesis.
- Proficiency in labile protecting group strategies and linker design.
- Working knowledge of standard analytical and preparative chemistry techniques including NMR, LCMS, FPLC, HPLC, TLC, and flash chromatography.
- Must think critically and creatively and demonstrate ability to access scientific literature to solve novel synthesis problems.
- Ability to interact effectively and directly within a multi-disciplinary team in a dynamic startup environment
- Strong written and verbal communications skills.

**QUALIFICATIONS DESIRED**

**Education**
Requires a Ph.D. in Organic Chemistry, Chemical Biology or Biochemistry.

Proven record of scientific achievement through publications in peer-reviewed journals.

**Experience**
2 yrs+ relevant industry experience.

**Description of Company**
Molecular Assemblies, Inc. is a San Diego-based company focused on developing an enzymatic DNA synthesis technology designed to power the next generation of DNA-based products. The company's patented enzymatic method, based on making DNA the way nature makes DNA, produces long, high quality, sequence-specific DNA reliably, affordably and sustainably. Molecular Assemblies' technology will enable the reading and writing of DNA for industries including industrial synthetic biology and precision medicine, as well as emerging applications of DNA for data information storage, nanomachines and bio-based electronics.

For more information please visit [http://www.molecularassemblies.com](http://www.molecularassemblies.com).

**Application Instructions**
Please e-mail applications to [scott@molecularassemblies.com](mailto:scott@molecularassemblies.com) directly for consideration.
Heterocyclic Chemistry
by Phil S. Baran

A free course offered from The Scripps Research Institute
(April 3rd – June 12th)

The class focuses on the pragmatic goal of enabling students to rapidly formulate creative retrosyntheses to the common heterocyclic systems and arm them with the tools to devise syntheses for extremely complex systems with multiple heteroatoms.

For syllabus, dates and more information, see:
http://www.scripps.edu/baran/heterocycles/


Please RSVP to mgassert@scripps.edu
ACS PUBLICATIONS LAUNCHES MOBILE-OPTIMIZED WEB PLATFORM

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  Thursday, March 2, 2017 @ 2-3pm ET

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  Thursday, March 9, 2017 @ 2-3pm ET

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If you have open positions in chemistry and biochemistry that would be of interest to college students, such as summer internship opportunities, here is a list of contacts you’ll want to keep handy. The people listed below are the faculty advisors of the ACS Student Affiliate groups for all chemistry programs in San Diego County. These professors can get the word out to all chemistry and biochemistry majors at their schools about jobs, career fairs, open houses, etc.

California State University, San Marcos
Jacqueline Trischman trischma@csusm.edu 760-750-4206

MiraCosta College
Linda Woods lwoods@miraCosta.edu 760-757-2121 Ext. 6411

Palomar College
Greg Elliot gelliott@palomar.edu 619-760-531-1149

Point Loma Nazarene University
Sara Choung SarahChoung@PointLoma.edu 619-849-2627

San Diego Mesa College
Dwayne Gergens dgergens@sdccd.edu 619-388-2609

San Diego Miramar College
Fred Garces fgarces@sdccd.edu 619-388-7493

San Diego State University
Mikael Bergdahl bergdahl@sciences.sdsu.edu 619-594-5865

Southwestern College, Chula Vista
David Hecht dhecht@swccd.edu 619-421-6700x5461

University of California, San Diego
Joe Cribari jcribari@ucsd.edu 858-822-4055
Gourisankar Ghosh gghosh@ucsd.edu 858-822-0469
Judy Kim judy@ucsd.edu 858-534-8080

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UPCOMING EVENTS

SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING
EXPO DAY at PETCO Park
Saturday, March 4, 2017
https://www.lovestemsd.org/

**********
THE 63RD ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR
Balboa Park Activity Center (2145 Park Blvd.)
For information please see http://www.gsdsef.org/
March 14 - 19, 2017

**********
253RD ACS NATIONAL MEETING & EXPOSITION
San Francisco, California
April 2 - 6, 2017

**********
THIRD ANNUAL ACS-WEST COAST ANALYTICAL CHEMISTRY SYMPOSIUM
Dart NeuroScience, 12278 Scripps Summit Drive, San Diego, CA 92131
Monday, April 10, 2017

**********
EARTH DAY - EARTHAIR 2017
Balboa Park, San Diego, CA
http://www.earthdayweb.org/
Sunday, April 23, 2017

**********
SUMMER PICNIC
San Dieguito County Park, Solana Beach
Sunday, June 25, 2017

**********
20TH ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM
Hojel Auditorium and Arango Foyer, UCSD
Friday, July 14, 2017

**********
254TH ACS NATIONAL MEETING & EXPOSITION
Washington, DC
August 20-24, 2017

**********
CHEM EXPO
Chemistry Rocks!
San Diego Miramar College, 10440 Black Mountain Road, San Diego
10440 Black Mountain Road, San Diego
Saturday, October 28, 2017

**********
HOLIDAY PARTY
Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego, CA 92111
Thursday, December 7, 2017

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY WELCOMES ITS NEW MEMBERS

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Parke Funderburk
Erica Gacasan
Pablo Garcia-Reynaga
Taraka Sai Pavan Grandhi
Jesse Howe
Lalena Janke
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Thuy Tien Nguyen
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Sharon Obendorf
Victor Or
Katherine Pattee
Anne Richelle
Rajesh Seenivasan
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Tsai Wen Sung
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Cristofer Thompson
Richard Truong
Michael Turo
Adam Vianna
Ziyao Wang
Amy Williford
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Voice Mail – San Diego Section 619-687-5570