



Family Picnic & Social Event

DATE: Sunday, June 30, 2019

WHERE: San Dieguito County Park, Solana Beach, at Lomas Santa Fe Drive and El Camino Real. Lomas Santa Fe exit off of I-5, one mile east to Highland Drive park entrance. Left onto Highland, immediate right into the park. Pay parking fee (\$3.00/car, free for seniors), at booth proceed to Area #3. *Note: the San Diego County Fair will cause heavy traffic on I-5 near the Lomas Santa Fe exit. Please allow extra driving time!*



TIME: 11:30AM – 4:00PM (food served from approx. noon to 3PM)

WHO: All ACS members, families & friends (as potential members!)

WHAT: BBQ, cold drinks, games and prizes for children of all ages. **Please bring a homemade dessert to enter the Best Dessert Contest (Prizes will be awarded)!** If you bring a cold dessert, bring a cooler. Guests with special dietary needs should provide for them.

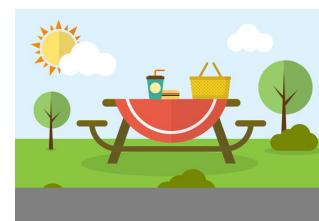
RSVP: As early as possible but no later than Thursday, June 27th by registering at <http://sdacs2019picnic.eventbrite.com/>

Please tell us how many adults and how many children (with their ages) will be in your party.



Volunteers Needed for Morning Setup!

Please contact James Caldwell to sign up:
tel. 815-262-9697
e-mail: jcaldwell@sandiegoacs.org



JUNE NOTES

Dear ACS Members,

We are almost at the half-year mark and are looking forward to many more events in the remaining part of the year. You will, however, first read about events in this issue that took place in April and May.

On April 28th, we participated in the Earth Day celebration. A thank you to **James Caldwell** and volunteers who were part of this event in Balboa Park.

On May 9th, the Southern California Pharmaceutical Discussion Group (SCPDG) of AAPS had a joint meeting with the San Diego Section of the ACS. **Dr. Vince Wachter** of Synthetic Biologics, Inc., gave a presentation about: "Why Bother? Downstream Development and Market Considerations that Impact Drug Discovery". Thank you to **Julann Miller** for helping to organize this event.

On May 20th, **Professor David M. Walba** from the Department of Chemistry, University of Colorado at Boulder, talked about: "Spontaneous Achiral Symmetry Breaking in Organic Fluids" at San Diego State University.

Please mark your calendar for upcoming events.

Our much anticipated Family Picnic will be on June 30th at San Dieguito County Park, Solana Beach. You don't want to miss the event, so please RSVP at <http://sdacs2019picnic.eventbrite.com/>.

On July 11th, we will have our Fifty-, Sixty- and Seventy-Year Member Recognition Luncheon at Tom Ham's Lighthouse Restaurant, 2150 Harbor Island Drive, San Diego. Please RSVP at <https://2019sdacsluncheon.eventbrite.com>

July 19th will mark the 22nd Annual San Diego Medchem Symposium. It will be held again at the Hojel Auditorium and Arango Foyer, UCSD, The Institute of the Americas, 10111 North Torrey Pines Road, La Jolla. Register online by Friday, July 12th, and food will be provided. Click on <http://chemistry.ucsd.edu/go/medchem> and follow the link to the registration page.

I hope you are all looking forward to attending the 258th ACS National Meeting & Exposition *here in San Diego*, August 25-29.

Just a reminder! We have elections coming up in November. There are several openings as you will see in this issue. Why not think about running for one of the positions?

Renate Valois for Jennifer Barber-Singh, Co-Chair
San Diego Section of the American Chemical Society
E-mail: jbsingh@sandiegoacs.org
Web: www.sandiegoacs.org

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 2019 **Co-Chair, Jennifer Barber-Singh**, at jbsingh@sandiegoacs.org. Once approved, Jennifer 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!

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 a 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 at renate@sandiegoacs.org

TREASURER NEEDED

The Executive Committee of the San Diego Section of the American Chemical Society is looking for someone to assume the Treasurer's position starting January 2020.

If you are interested, please contact David Wallace at davidmw@san.rr.com.

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:
Size (w x h) Number of Issues & Price/Issue

	1	3	6
2" x 3"	\$ 75	\$ 68	\$ 58
4.5" x 1.5"	\$ 80	\$ 74	\$ 67
4.5" x 4.75"	\$200	\$184	\$163
8.5" x 5.5"	\$400	\$360	\$310
full page	\$655	\$590	\$510

Discounts will be available for issues not shown

Please send your jpg to:

Renate Valois at renate@sandiegoacs.org.

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".

Executive Committee Meeting Dates 2019 6:00 – 8:00 pm

Thursday	June	6
Thursday	July	11
Thursday	August	1
Thursday	September	5
Thursday	October	3
Thursday	November	7

Meetings will be held at:

9381 Judicial Drive, Suite 160, San Diego

EARTH DAY - EARTHFAR 2019

The **National ACS Chemists Celebrate Earth Week (CCEW)** celebrated its 16th anniversary in 2019 with the theme, **"Take Note: The Chemistry of Paper"**. San Diego Local Section CCEW coordinator, **James Caldwell**, organized an event at the 30th EarthFair in Balboa Park on April 28, 2019. San Diego Local Section volunteers, **Paul Bruinsma**, **Gulin Erdogan**, and **Nathaniel Cohan** supported the event, spending the day performing demonstrations. **Elena Bliemel**, a Hewlett-Packard media division and paper expert, brought several paper sustainability and paper recycling items for display. **Juan Gonzales**, the ACS Student Affiliate advisor at Southwestern College, coordinated volunteers **Christian Castillo**, **Caitlian Valdez**, and **Marco Wende**. Thank you all who helped make the event run smoothly!

The 2019 Balboa Park EarthFair theme was "We're all in this together" and the societies' common goal "to communicate the positive role chemistry has in the world" complemented this nicely. At the EarthFair there were around 60,000 visitors. We demonstrated acid acidification by dissolving some of our nice display of seashells (containing calcium bicarbonate) in acidic solutions and with a negative control using neutral bottled water. This simple experiment drew in a constant stream of curious visitors wanting to learn more. We explained to them the process of ocean acidification and what they could do to help. Also, the display provided by HP was very informative and aligned with this year's theme, **"Take Note: The Chemistry of Paper"**. The EarthFair event for the American Chemical Society's **Chemists Celebrate Earth Week, San Diego Section, was a great success**



Nathaniel Cohan



Text: James Caldwell
Photo Credit: James Caldwell

A Prudent Reminder to Integrate Downstream Development and Market Considerations into Drug Discovery

A Joint Meeting with the ACS – San Diego Section

Article Written By: Bhavishya Mittal

Why bother? This was a thought-provoking and profound question that was posed by Dr. Vince Wachter to the audience of AAPS' Southern California Pharmaceutical Discussion Group (SCPDG) that met on May 9 in San Diego. In his spirited talk (titled: ***Downstream Development and Market Considerations that Impact Drug Discovery***), not only this question was a premise and story-telling device, but also a critical reminder of why it is important for pharmaceutical scientists to keep an eye towards integrating (global) market considerations into drug discovery, product design, and process development.



(l): SCPDG's Adam Grobin; (r): Vince Wachter

Drug discovery is the exciting initiation of a development program that we hope will ultimately deliver a new medicine of real therapeutic value to the patient in need. In the 21st century, the science of drug development is an established field which requires a dedicated understanding of several disciplines and entails a symbiotic partnership between numerous subject matter experts. Given the experience that we now have in R&D, the steps taken towards establishing a drug's safety and efficacy, product development, and its commercialization have long been standardized. However, the development of pharmaceutical products is not immune to the irrefutable laws of economics.

In his presentation, Dr. Wachter reviewed some of the downstream financial, competitive and prescribing pressures that ultimately determine whether a new drug will ever reach the market. The goal of the talk was to raise awareness around strategic decision-making during drug discovery and development that allows for a pharmaceutical asset to provide economic benefits to innovative companies without compromising quality and therapeutic benefit to patients. As everyone knows, the development of a robust drug product requires juggling many competing priorities such as overcoming scientific challenges, following regulatory requirements, and managing business-related concerns. However, it is equally important to be aware of the impact of development time and cost of goods on patent protection, exclusivity, marketability, and competitiveness.

Dr. Wachter is an accomplished pharmaceutical industry professional with over 23 years' experience successfully leading corporate strategy, partnering, research, product development, and intellectual property programs for start-ups, small companies and new business units within large companies. His enthusiasm to share his knowledge and real-world experience was deeply appreciated and very well received by the audience that comprised of seasoned industry professionals, academicians, and students. After all, we all are passionate about bringing new therapies to the market place and provide better health outcomes to our patients. Aren't we?

ABOUT THE AUTHOR

Bhavishya Mittal, Associate Director, Oral and Implant Product Development Small Molecule Product Development Group Allergan, plc

The opinions expressed in this article are not necessarily those of the American Chemical Society.

**SAN DIEGO ACS SECTION/SDSU CHEM/BIOCHEM DEPARTMENT
7TH ANNUAL JOINT MEETING, MONDAY, MAY 20TH AT SDSU**

Each of our series meetings has had a speaker with an SDSU connection. This one may have been the most unusual. **David Walba** (University of Colorado, Boulder, Department of Chemistry) was the speaker. His father, **Harold Walba**, now Emeritus, was a key professor in the SDSU Chemistry Department for many years, and, coincidentally, is being honored by our Local Section for 70 years of ACS service. **Harold** is credited with setting up the department's Ph.D. program, which was the first Ph.D. program in the entire CSU system.

Son **David** spent time in the SDSU chemistry department while growing up and as a summer researcher for three consecutive years while an undergraduate at Berkeley. His talk titled "Spontaneous Achiral Symmetry Breaking in Organic Fluids" may seem esoteric, but it involved the history and recent advances in the field of liquid crystals. (Yes, the materials which give the great pictures in your large-screen LCD TV!) **David** highlighted with stunning images the bent-core materials first discovered in 2013 which possess fluid order in three dimensions leading to spontaneously forming optically active materials. Louis Pasteur discovered symmetry breaking in organic crystals 171 years ago; now we have examples of similar symmetry breaking based on specific chemical structure in organic liquids.



Bill Tong



Tom Beattie



David Walba



Tom Beattie with Professor Byron Purse

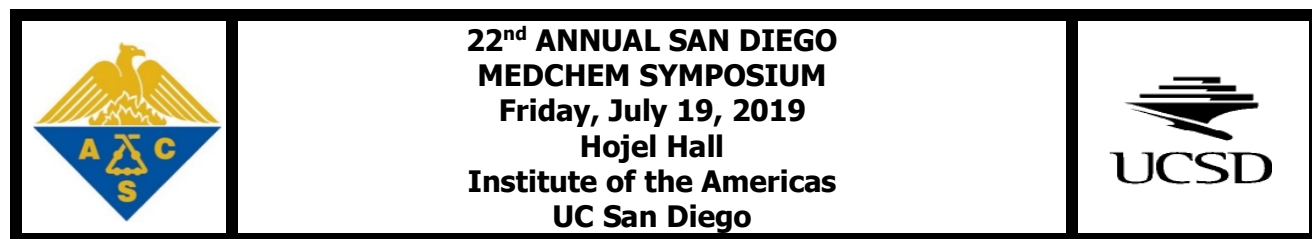


Some chemistry Professors Emeriti



Tom Beattie, David Walba, Bill Tong

Text: Tom Beattie
Photo credit: Jim Shih



Organized by

Dr. Ben Pratt, Dr. Mark Tichenor, Dr. David Wallace - San Diego Section of the American Chemical Society
Dr. Emmanuel Theodorakis - UCSD Department of Chemistry and Biochemistry

- 8:30 AM **Registration and Continental Breakfast**
- 9:00 **Opening Remarks: Emmanuel Theodorakis**
- 9:05 **Dr. Carlo Ballatore, University of California San Diego**
 "Microtubule Stabilizing Small Molecules as Candidate Treatments for Alzheimer's Disease and Related Tauopathies"
- 9:50 **Dr. Punit Seth, Ionis Pharmaceuticals**
 "Targeted Delivery of Nucleic Acid Therapeutics"
- 10:35 **Coffee Break**
- 10:50 **Dr. Scott Rychnovsy, University of California Irvine**
 "Synthetic Approaches to Alkaloids and Terpenes"
- 11:35 **Dr. Matt Marx, Mirati Therapeutics**
 "The Discovery of MRTX1257, a Selective, Irreversible Inhibitor of KRAS G12C with Oral Antitumor Activity"
- 12:20 PM **Lunch**
- 1:20 **Dr. Jeff Gustafson, San Diego State University**
 "New Selectivity Filters to Obtain Selective Inhibitors of RET and Osimertinib Resistant EGFR Mutants"
- 2:05 **Dr. Valentina Molteni, The Genomics Institute of the Novartis Research Foundation**
 "Non-steroidal FXR Agonists – Tropifexor and Nidufexor for Chronic Liver Disease"
- 2:50 **Symposium Conclusion**



To register please visit:

<http://chemistry.ucsd.edu/go/medchem>

follow the link to the registration page.

Register online by Friday, July 12, and food will be provided.



Date: Saturday, June 8, 2019
Location: Hilton San Diego/Del Mar, 15575 Jimmy Durante Blvd, Del Mar, CA

Sino-American
Biotechnology and Pharmaceutical
Professional Association



The 18th Annual San Diego BioPharma Conference

San Diego BioPharma Conference is the flagship event of SABPA. This year's keynote speakers include professor Lieping Chen, one of the pioneers in cancer immunotherapy and Dr. Barry Sharpless, a Nobel Laureate and one of the giants in organic Chemistry. Multiple heavyweight success stories on recent drug approvals and their real world impacts will also be showcased. The panel discussion will keep you abreast of the latest trends for cross-border collaboration and investment. Come and meet some of the visionary leaders and network with your peers. This is one of the biggest San Diego biotech events that you don't want to miss. Please visit <http://www.sabpa.org> for more details.



Lieping Chen
Professor
Yale University



K. Barry Sharpless
Professor
TSRI



Paul Negulescu
SVP
Vertex



Neil Gibson
CSO
COI Pharmaceuticals



Karl Handelsman
Investment Director
Roche Ventures



Shuhui Chen
CSO
WuXi AppTec



Greg Scott
Founder
ChinaBio® Group



Karen Wong
Senior of Counsel
WSGR



William Belanger
Partner
Procopio



Hongbo Lu
Partner
Lilly Asia Ventures



Jaskaran Singh
Sr Director
J&J



Marie Zhu
CEO
MabPlex USA

Program Highlights

- Pioneer in Cancer Immunotherapy tells you: the end of the beginning of Cancer Immunotherapy
- Keynote speech by Nobel Laureate Dr. Barry Sharpless
- The Community, Opportunity and Innovation (COI) Incubator: An academic Bridge to Biotech.
- The science of possibility: How Vertex transforms the treatment of cystic fibrosis
- The development of Esketamine: a novel drug for treatment-resistant depression in decades
- Nuts and bolts in cross-border collaborations in biopharmaceutical industry

Do not miss the early bird registration by June 1, 2019!

Register at <http://www.sabpa.org/registration-2/> or scan QR code

Join **concurrent** SABPA Bio-Partnering for your next Big Business Breakthrough



Date: Saturday, June 8, 2019

Location: Hilton San Diego/Del Mar, 15575 Jimmy Durante Blvd, Del Mar, CA

Sino-American
Biotechnology and Pharmaceutical
Professional Association



The 18th Annual San Diego BioPharma Conference

8:00 am **Registration & Breakfast**
8:45 am **Welcome and Opening Remarks**
Peter Huang, PhD, President, SABPA
Yi Liu, PhD, Chair, BioPharma Committee, SABPA; CSO, Wellspring Biosciences

Morning Session: Current Trends in Biopharmaceutical Sciences

Session Chair: **Yi Liu, PhD**, Chair, BioPharma Committee, SABPA; CSO, Wellspring Biosciences

9:00 am **2018 San Diego Bio-Pharma Achievement Award**
Lieping Chen, MD, PhD Professor, Yale University
Presentation: Cancer immunotherapy: the end of the beginning
10:00 am **Paul Negulescu, PhD** Senior Vice President and Site Head, San Diego Research Vertex Pharmaceutical
Presentation: TBD
10:30 am **Coffee Break & Networking**
11:00 am **Jaskaran Singh, MD** Senior Director, J&J
Presentation: Clinical Development of Intranasal Esketamine for Treatment Resistant Depression
11:30 am **Shuhui Chen, PhD** Chief Scientific Officer, WuXi AppTec
Presentation: TBD
12:00 pm **Lunch & Networking**

Afternoon Session: Drug Discovery and Cross-border Opportunities

Session Co-Chairs: **Wendy Wang**, Co-Chair, BioPharma Committee, SABPA;
Sr. Manager, Quality Assurance, Genoptix Med. Lab
Shuangwei Li, PhD, DABT Co-Chair, BioPharma Committee, SABPA;
Sr Toxicologist, La Jolla Pharmaceutical Company

1:30 pm **K. Barry Sharpless, PhD** W. M. Keck Professor of Chemistry, TSRI
Presentation: TBD
2:00 pm **Neil Gibson, PhD** CSO COI Pharmaceuticals
Presentation: The Community, Opportunity and Innovation (COI) Incubator: An academic Bridge to Biotech.
2:30 pm **Marie Zhu, PhD** CEO MabPlex USA
Presentation: Antibody-Drug Conjugates: Opportunities as An Important Therapeutic Modality for Cancers with Improved Conjugation Technologies
2:50 pm **Exhibition and Networking**
3:20 pm **Karl Handelsman, MBA** Investment Director, Roche Venture Fund
Presentation: TBD
3:50 pm **Panel discussion:** Nuts and bolts in cross-border collaborations in biopharmaceutical industry
Moderator:
Karen Wong, PhD, JD Senior of Counsel, Wilson Sonsini Goodrich & Rosati
Panelists:
Greg Scott Founder, ChinaBio® Group
Hongbo Lu, PhD, MBA Partner, Lily Asia Ventures
Karl Handelsman, MBA Investment Director, Roche Venture Fund
William Belanger JD, MBA Partner, Procopio
5:00 pm **Cocktail Hour** sponsored by **MabPlex USA**

CONGRATULATIONS!

Andrew Feng of Canyon Crest Academy and **David Wu** of Westview High School, both of the San Diego Local Section, will attend the Chemistry Olympiad Study Camp, June 2-13, 2019, at the University of Maryland at College Park, MD. They will compete for a spot on the team representing the United States at the 51st International Chemistry Olympiad in Paris, France, July 21-30, 2019.

David Wu participated also in the 2017 and 2018 USNCO Study Camp.

There were more than 90 students, from 15 local high schools, who participated in this year's local screening test held at the University of San Diego. Fourteen qualifying students were invited back to take the national exam.

A thank you to **Professor Joan Schellinger**, Department of Chemistry and Biochemistry, University of San Diego, for coordinating the Chemistry Olympiad for the ACS – San Diego Section.



VOLUNTEERS NEEDED

CHEM EXPO, part of National Chemistry Week celebration, is a great opportunity to instill greater public awareness in the importance of chemistry in our everyday lives and the roles that chemists play in our community. Our event will take place on

**Saturday, October 26, 2019
11 AM to 3 PM**

**Theme – Marvelous Metals
San Diego Miramar College
10440 Black Mountain Rd, San Diego**

We need local organizations. Please sign up for an exhibit at our event.

- Exhibits by Local Companies & Organizations
- Chemistry Demonstrations
- Hands-on Activities and Much More

To volunteer and for free space to show education exhibits please contact:

Julann Miller at jmiller@sandiegoacs.org

Sponsored by the San Diego Section of the American Chemical Society - <http://www.sandiegoacs.org>.

IT IS NOT TOO EARLY----

----- TO THINK ABOUT THE ANNUAL SAN DIEGO ACS LOCAL SECTION ELECTIONS 2020

Nominations for Section offices are now in order. Per our Bylaws, the current Chair-Elect will assume the Chair, but other positions are open for election, including

Chair-Elect • Secretary • Treasurer • 2 Councilors • 3 Alternate Councilors • 2 Members-at-Large

Councilors, Alternate Councilors, and Members-at-Large serve for three years, and all incumbents may succeed themselves. We encourage the active participation of our members! If you have an interest in becoming involved in the ACS-San Diego Section and want to make a self-nomination as a candidate for an elected position, please contact Jennifer Barber-Singh at jbsingh@sandiegoacs.org or David Wallace at davidmw@san.rr.com. Please send your bios to **Renate Valois** at renate@sandiegoacs.org

NOTE: VOTING WILL AGAIN BE DONE ELECTRONICALLY

Voting will be done electronically using your email address on record for the ACS. If you wish to receive a paper ballot instead, please call or e-mail Jackie Trischman, Election Coordinator, at **858-414-3323** or trischma@csusm.edu **by Monday, November 4th** and leave your name and mailing address. You will be mailed a paper ballot.

If you do not request a paper ballot, you will receive instructions on how to vote via email. Please be sure your email address on file with the ACS is current! To update your email address with the ACS, use www.chemistry.org

When the elements are arranged in vertical columns according to increasing atomic weight, so that the horizontal lines contain analogous elements again according to increasing atomic weight, an arrangement results from which several general conclusions may be drawn.

Dmitry Ivanovich Mendelev

**SUMMARY OF THE SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
May 2, 2019**

Treasurer's Report – Finances are healthy, received this month: 1st installment of Section dues for \$6.5K, five MedChem sponsorships for \$5K, \$1K reimbursed from Bernardo winery for cancelation of event, reimbursements for 3 councilors' travel; expenses: permit for ChemExpo, one Mad Science show; pending expenses: reimbursements for supplies for Expo Day at Petco Park, Website maintenance

Senior Chemists Breakfast – Held April 16 at Bristol Farms Café, 10 attended, two of them new; next breakfast Tues. July 9

Nominations – Openings for which we have no current candidates: Chair-elect, 1 Councilor (should emphasize to candidates that Councilors are expected to attend ExComm Meetings); Treasurer

AAPS / ACS Symposium – May 9

May Monthly Seminar at SDSU – Monday, May 20, 6-8 p.m.; speaker: Prof. David Walba, whose father was founder of the SDACS Section

50-60 Yr Member Luncheon – July 11 at Tom Ham's Lighthouse, invitation letters for honorees are ready for Chair's signature

MedChem Symposium - July 19

National Meeting – Volunteers for Section booth are needed

SABPA / ACS Symposium – Possible for September, but no organizing committee at this point

Distinguished Scientist Award – Candidate has been chosen but not yet notified, venue for banquet pending, possibly USD Shiley Center and using USD Catering

ChemExpo – Deposit paid

Year-End Wrap-up – No location decided at this point but Sufi Mediterranean Cuisine remains a good option

National Organic Symposium – Proposed by UCSD for 2021 instead of MedChem Symposium; however, MedChem committee believes enough differentiation to warrant both events; UCSD budgeting \$10 K and requesting \$5K from SDACS

Project SEED – Sent letters of recommendation for 7 students to mentors; due to mix-up in applications, the application to National for another highly qualified student missed the deadline

Motion: SDACS to fully support 8th student; counter motion to table vote pending info from National as to whether they will accept a late application in view of the exceptional qualifications of the candidate, at which time the vote will proceed via e-mail – Counter Motion: Approved

Green Chemistry - John Warner, founder of Green Chemistry, to speak at CSUSM November 23 hosted by Prof. Robert Iafe and sponsored with a Dreyfus Grant; seeking venue for a second, more general Green Chemistry talk

National ACS Membership Affairs – Proposed changes to National by-laws to be discussed at next National Meeting aiming to get greater flexibility in membership dues schedule

Next meeting: June 6, 2019

VOLUNTEER WITH KIDS & CHEMISTRY

For more, please see: <http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html>

ACS Webinars™

Welcome to ACS Webinars, your source for online live and on-demand content, created by the American Chemical Society.

Please join us weekly, Thursdays at 2pm ET.

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TELL US ABOUT YOUR FAVORITE ELEMENT



What was the first element or element family that really inspired you? As part of the International Year of the Periodic Table (IYPT2019), we're asking ACS members to

[tell us about their favorite element, or element family.](#)

Here are some ideas to get you started: Is there an element that has been an ongoing source of fascination and inspiration? Was your undergraduate or graduate research focused on a particular element? Has there been an element that has been a constant through your education or working life? We look forward to hearing from you—thanks for [sharing your story!](#)

Image credit: [C&EN](#)

150 YEARS OF THE PERIODIC TABLE, ONE SPECIAL BLANKET

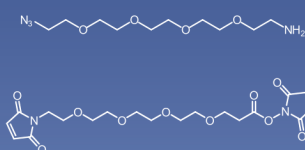
Dmitri Mendeleev's Periodic System changed the world of chemistry 150 years ago, and ACS is commemorating that with a special [2019 Member-Get-a-Member Campaign](#) gift. ACS Members who successfully participate in the campaign will receive a limited-edition ACS blanket. There's no limit to how many people you can refer – but there is a limit to this unique blanket, because it's only available during this special anniversary year! Quantities are limited – [start nominating today](#) to ensure you receive your limited-edition blanket! To learn more about the International Year of the Periodic Table, visit www.acs.org/IYPT.



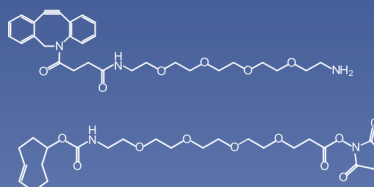
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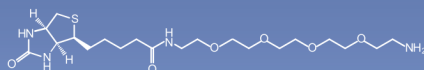
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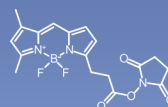
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Biotin Labeling



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sales@broadpharm.com | www.broadpharm.com
(858) 677-6760

Company Profile

BroadPharm – A Worldwide Leading PEG Supplier

BroadPharm is a leading customer-focused biotech company in San Diego, California. We are dedicated to manufacturing and supplying high purity PEG linkers, Click Chemistry Reagents and advanced Bio-labeling reagents such as Dye Labeling and Biotin Labeling compounds to our clients worldwide. In addition, we also offer IP-protected custom synthesis for our clients in the pharmaceutical and biotech industries. We provide timely technical support to address our client's need and offer technical advice for the best use of our new products.

Founded in 2009, BroadPharm takes our customer needs as our highest priority. We have over 2,000 discrete, high purity PEG reagents in stock which can be shipped to our clients immediately.

PEG is an abbreviation for Polyethylene Glycol which consists of repeating ethylene oxide units. Unlike traditional PEGs, all of BroadPharm's PEG products represent a specific, single chemical structure with high purity. Each product is synthesized and purified using BroadPharm's proprietary advanced technology and characterized by modern NMR and LC/MS.

BroadPharm's PEG products offer many advantages over traditional linkers such as increased water solubility, reduced aggregation and low immunogenicity. These PEG reagents have been widely used in bioconjugation, antibody-drug conjugates (ADCs) therapeutic, drug delivery and diagnostics field.

With our strong expertise in modern chemistry, innovative & novel PEG technology and state-of-the-art equipment, BroadPharm can help our customers to accelerate their research through cost-effective and efficient solutions.



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Attention Companies! Do you hire student workers?

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

San Diego Miramar College

Linda Woods
lwoods@sdccd.edu
(619) 388-7750

Point Loma Nazarene University

Sara Choung
SaraChoung@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

Southwestern College, Chula Vista

David Hecht
dhecht@swccd.edu
619-421-6700x5461

University of California, San Diego

Stacey Brydges
sbrydges@ucsd.edu
858-246-0993

Thomas Bussey
tbussey@ucsd.edu
858-822-6665

University of San Diego

Tammy Dwyer
tdwyer@sandiego.edu
619-260-4030

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2019 ACS REGIONAL MEETINGS

Middle Atlantic (MARM)	ends June 1	UMBC, Baltimore
Central (CERM)	June 4 - 7	Midland, MI
Northwest (NORM)	June 16 - 19	Portland, OR
Northeast (NERM)	June 22 - 27	Saratoga Springs, NY
Midwest (MWRM)	October 16 - 18	Wichita, KS
Southeastern (SERMACS)	October 20 - 23	Savannah, GA
Southwest (SWRM)/RMRM	November 13 - 16	El Paso, TX



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For information contact:

Renate Valois - renate@sandiegoacs.org

It is the function of science to discover the existence of a general reign of order in nature and to find the causes governing this order. And this refers in equal measure to the relations of man - social and political - and to the entire universe as a whole.

Dmitri Mendeleev

UPCOMING EVENTS

SUMMER PICNIC
San Dieguito County Park, Solana Beach
Sunday, June 30, 2019

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST
Bristol Farms Café - Costa Verde Shopping Center –
Genesee Avenue and Nobel Drive, University City
Tuesday, July 9, 2019, at 9:30 AM

FIFTY-/SIXTY-YEAR MEMBER LUNCHEON
Tom Ham's Lighthouse, 2150 Harbor Island Drive, San Diego
Thursday, July 11, 2019

22nd ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM
Hojel Auditorium and Arango Foyer, UCSD
The Institute of the Americas
10111 North Torrey Pines Road, La Jolla, CA 92093
Friday, July 19, 2019

258th ACS NATIONAL MEETING & EXPOSITION
San Diego, California
August 25-29, 2019

CHEM EXPO
"Marvelous Metals"
San Diego Miramar College, 10440 Black Mountain Road, San Diego
10440 Black Mountain Rd, San Diego
Saturday, October 26, 2019

HOLIDAY PARTY
Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego, CA 92111
Tuesday, December 3, 2019

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

John Beals
Wen Chen
Susan Cooper
Kevin Curran
Shan Deneen
Ralph Dougherty
Nesreen Elathram
Tamara El-Hayek
Julian Esselborn
Thomas Esser
Franco Faucher
Michael Greig
Ramsey Hazin
Azyriah Hill
John Ketcham
Sepideh Khorasanizadeh
Regis Komperda

William Krantz
Jonas Lee
Tinghui Li
Jeff Mindrebo
Sophia Mittman
Herbert Moss
Russ Naven
Keegan Nelson
Huong Nguyen
Trystan Rackham
Daniel Richter
Robert Shoemaker
Laurie Smith
Andy Stokely
Daniel Wright
Mackenzie Wyllie

**2019 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

EXECUTIVE COMMITTEE

<i>Co-Chair</i>	Jennifer Barber-Singh, BioFluidica, ibsingh@sandiegoacs.org	(2019)	858-869-7084
<i>Co-Chair</i>	David Wallace, Samumed, LLC, davidmw@san.rr.com	(2019)	858-638-1866
<i>Chair-Elect</i>	James Caldwell, Accelagen, Inc., jcaldwell@sandiegoacs.org	(2019)	815-262-9697
<i>Past-Chair</i>	Jennifer Barber-Singh, BioFluidica, ibsingh@sandiegoacs.org	(2019)	858-869-7084
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., b_tolley@juno.com	(2019)	858-780-0978
<i>Treasurer</i>	Graeme Freestone, Ionis Pharmaceuticals, Inc., gfreestone@sandiegoacs.org	(2019)	858-539-6363

Councilors

Thomas R. Beattie	(2021)	858-587-1210
Hui Cai, WuXi AppTec	(2019)	858-361-8838
Desiree Grubisha, Halozyne Therapeutics	(2021)	858-254-5497
Valerie Kuck	(2020)	973-744-5510
Ken Poggenburg	(2019)	760-635-2573
David Wallace, Samumed, LLC	(2021)	858-638-1866

Alternate Councilors

Surya K. De, Plex Pharmaceuticals, Inc.	(2019)	858-337-4961
Julann Miller, Waters Corporation	(2020)	800-252-4752 x6802
Ben Pratt, Pratt Pharma Consulting LLC	(2019)	858-945-7893
John Schindler	(2019)	858-353-3943
Jim Shih, Eli Lilly & Co	(2020)	626-826-3561
Shannon Woodruff, HP Inc.	(2020)	949-735-9021

Members-at-Large

Paul Bruinsma, HP Inc.	(2020)	858-655-8322
James O'Brien	(2020)	858-336-0654
Bill Szabo	(2019)	858-550-0306
Jackie Trischman, CSUSM	(2021)	858-414-3323
Joann Um, Southwestern College	(2019)	510-823-8637

STANDING & SPECIAL COMMITTEES

Awards Nomination Committee

Valerie Kuck (Co-Chair)	973-744-5510
John Schindler (Co-Chair)	858-353-3943

ChemExpo

Julann Miller (Chair), Waters Corporation	800-252-4752 x6802
Paul Bruinsma, HP Inc.	858-655-8322

Communications Committee

Paul Bruinsma (Chair), HP Inc.	858-655-8322
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Desiree Grubisha, Halozyne Therapeutics	858-254-5497
Ken Poggenburg	760-635-2573
Renate Valois (Newsletter Editor)	619-692-0638
David Wallace, Samumed, LLC	858-638-1866

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Tammy Dwyer, USD	619-260-4030
Barbara Sawrey	858-729-0689
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Joan Schellinger, USD	619-260-7960

EarthFair

James Caldwell, Accelagen, Inc.	815-262-9697
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Finance Committee

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Tom Beattie	858-587-1210
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Fundraising Committee

James Caldwell, Accelagen, Inc.	815-262-9697
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Government Affairs Committee

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Ken Poggenburg	760-635-2573

Law Committee

Ryan C. Smith, Duane Morris LLP	619-744-2220
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Mad Science Program

Thomas R. Beattie	858-587-1210
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MedChem Symposium

Ben Pratt (Co-Chair), Pratt Pharma Consulting, LLC	858-945-7893
Mark Tichenor (Co-Chair), Janssen Pharmaceuticals, Inc.	858-334-8914
David Wallace (Co-Chair), Samumed, LLC	858-638-1866

Membership Committee

OPEN

Nominations Committee

OPEN

Picnic Committee

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Jim Shih, Eli Lilly & Co.	626-826-3561

Professional Development Committee

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Public Relations Committee

John Schindler	858-353-3943
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Senior Chemists Committee

Ken Poggenburg (Chair)	760-635-2573
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Seniors Breakfasts

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Women Chemists Committee

Valerie Kuck	973-744-5510
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Younger Chemists Committee

OPEN

Voice Mail – San Diego Section

619-687-5570