

## The San Diego Chemist

American Chemical Society Volume 30, Number 6

San Diego Section June 2018



# Family Picnic and Networking Event



**DATE:** Sunday, June 24, 2018

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. Parking for *Note: the San Diego County Fair will cause heavy traffic on I-5 near the Lomas Santa Fe exit. Please* 

allow extra driving 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 21<sup>st</sup>, by registering at

http://sdacs2018picnic.eventbrite.com/

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



TIME:

## **Attention Younger Chemists!**

Schmooze and Network at the Picnic. Invite Your Friends! Make it WORK for You.

## **Attention Women Chemists!**

Meet and Greet! Make This Event a "Meeting Within a Meeting"! Share Your Ideas!

## **Volunteers Needed for Morning Setup!**

Please contact Jim Shih to sign up: tel. 626-826-3561 e-mail: jimshih@earthlink.net





## **CHAIR NOTES**

Dear ACS Members,

We're approaching the half-way point of 2018. As per usual, I provide a summary of recent happenings in our Local Section:

On May 17, the Southern California Pharmaceutical Discussion Group (SCPDG) in collaboration with SDACS hosted **Matthew Vankoski** of U.S. Pharmacopeia at Knobbe Martens for his seminar entitled "USP Standards Support Development & Characterization of Biological Products". Thank you to SCPDG for connecting with us for a second year and thank you to Knobbe Martens for hosting this event!

On May 30, the SDACS and AACC are cohosting a seminar entitled "Short and Long-term Consequences of Cannabis Medicalization & Legalization". We are excited to hear the impact the new laws enacted in California this year are going to impact our society. This seminar will be given by **Professor Marilyn A. Huestis**, recently retired senior investigator at the National Institutes of Drug Abuse within the NIH.

Aside from these local seminar events, I'd like to mention a notable achievement pertinent to the field of chemistry, and a source of great pride in San Diego: Of the sixteen local high school students who took the Chemistry Olympiad National Exam, **David Wu**, a student from Westview High School, has earned a spot at the USNCO Study Camp at the U.S. Air Force Academy in Colorado. **David** will compete for a spot on the team representing the United States at the 50th International Chemistry Olympiad in Bratislava, Slovakia, and Prague, Czech Republic, July 19-29, 2018.

Turning to June and July, there are two events I wish to put on your radar: June 24 – San Diego ACS Family Picnic at San Dieguito County Park, Solana Beach. Register at <a href="https://sdacs2018picnic.eventbrite.com">https://sdacs2018picnic.eventbrite.com</a>

July 20 – 21<sup>st</sup> The Annual San Diego ACS Medicinal Chemistry Symposium at UCSD. Register at <a href="https://www-chem.ucsd.edu/graduate-program/Events/medchem/registraton.html">https://www-chem.ucsd.edu/graduate-program/Events/medchem/registraton.html</a>

As always, you are welcome to join us – in person or remotely – at our next Executive Committee Meeting on Tuesday, June  $7^{th}$ . Get involved and make your membership in the San Diego Local Section of the ACS a rewarding experience!

Jennifer Barber-Singh, Ph.D.

2018 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 2018 Chair, **Jennifer Barber-Singh**, at <a href="mailto:jbsingh@sandiegoacs.org">jbsingh@sandiegoacs.org</a>. Once approved, Jennifer will see that your announcement is published on our website (<a href="www.sandiegoacs.org">www.sandiegoacs.org</a>) and, if received by the 20<sup>th</sup> 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 <a href="www.sandiegoacs.org">www.sandiegoacs.org</a> a separate notification is sent to the **2,500 members** of the ACS-San Diego Section, each potential customers for your products and services! **Quick turnaround:** Ad copy submitted by the 20<sup>th</sup> of each month will be published by the end of that month. For more information, please contact:

Renate Valois at renate@sandiegoacs.org

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 <a href="http://www.sandiegoacs.org/newsletter/">http://www.sandiegoacs.org/newsletter/</a>.

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 23<sup>rd</sup> 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	<i>3</i>	6
2" x 3"	<i>\$ 75</i>	<i>\$ 68</i>	<i>\$ 58</i>
4.5" x 1.5"	\$ 80	<i>\$ 74</i>	<i>\$ 67</i>
4.5" x 4.75"	\$200	\$184	\$163
8.5" x 5.5"	\$400	\$360	\$310
full page	<i>\$655</i>	\$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:

- 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.
- 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 "I", not the number "one" following the word "chemist".

## Executive Committee Meeting Date 2018 6:00 - 8:00 pm

Thursday June Thursday July 12 Thursday 2 August Thursday September 6 Thursday October 4 Thursday November 1

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 4<sup>th</sup> and 5<sup>th</sup> 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.

## **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 Ashkan Tafti at atafti@sandiegoacs.org

### 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: <a href="https://www.acs.org/content/acs/en/volunteer/chemambassadors.html">https://www.acs.org/content/acs/en/volunteer/chemambassadors.html</a>

**It Pays to be a Volunteer!** Volunteers have 27% higher odds of finding a job after being out of work than non-volunteers. The odds increase to over 50% for those without a high school diploma or who live in rural areas. Source: Corporation for National and Community Service. (June 2013). *Volunteering as a Pathway to Employment.* 

## **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. 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

## IT IS NOT TOO EARLY----

## ---- TO THINK ABOUT THE ANNUAL SAN DIEGO ACS LOCAL SECTION ELECTIONS 2018

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 ● 3 Councilors

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

Send your bios to Renate Valois at <a href="mailto:renate@sandiegoacs.org">renate@sandiegoacs.org</a>

## **CONGRATULATIONS**

**Professor Kimberly Prather**, distinguished Professor and Chair of Atmospheric Chemistry at UCSD, was honored on April 11 at the 44<sup>th</sup> annual Chancellor's Associates Faculty Excellence Awards and received an Excellence in Research in Science and Engineering award. She had previously received the San Diego Section's 2011 Distinguished Scientist Award

## **CONGRATULATIONS**

**David Wu,** Westview High School, CA, San Diego Section is one of the finalists who will attend the Chemistry Olympiad Study Camp, June 10-25, 2018, at the U.S. Air Force Academy in Colorado Springs, CO. The students will compete for spots on the team <u>representing the United States</u> at the 50th International Chemistry Olympiad in Bratislava, Slovakia, and Prague, Czech Republic, July 19-29, 2018.



## 21st ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM Friday, July 20, 2018 Hojel Hall Institute of the Americas UC San Diego



## 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	<b>Dr. Simon Bailey,</b> Intercept Pharmaceuticals "Incorporating Natural Product-like Features in Medicinal Chemistry"
9:50	<b>Dr. Thomas Hermann,</b> University of California San Diego "Small Targeting of Viral Noncoding RNA"
10:35	Coffee Break
10:50	<b>Dr. Arnab Chatterjee,</b> California Institute for Biomedical Research (Calibr) "Intra-muscular Injections for Malaria Chemoprotection"
11:35	<b>Dr. Holly Reichard</b> , Takeda Pharmaceuticals "Discovery of TAK-041: Potent and Selective GPR139 Agonist for Treatment of Negative Symptoms Associated with Schizophrenia"
12:20 PM	Lunch
1:20	<b>Dr. Jin-Quan Yu,</b> The Scripps Research Institute "Enantioselective and Remote C–H Activation Reactions"
2:05	<b>Dr. Cheryl Grice,</b> Abide Therapeutics "Discovery of ABX-1431: A Potent and Selective MGLL Inhibitor for Clinical Development"
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 13, and food will be provided.



## CHEMISTRY FOR YOU AND YOUR KIDS

### GET A LIFT WITH A WONDERSCIENCE WINDLASS

A windlass is a special kind of wheel and axle that is used to lift heavy objects. Old-fashioned wells often used a windlass to raise a large wooden bucket of water. In this activity, you will make your own windlass, and discover how using this special wheel system can make it a lot easier to lift heavy things.

## You will need

Safety glasses - 2 unopened soda cans - 2 flexible straws - 4 paper clips - Small paper cup (3 oz) - String or thread - Adhesive tape - 20 pennies

- 1. Open the paper clips into an "S" shape. Use two of the paper clips to make a handle for the small cup, and tie the string to this handle.
- 2. Place 20 pennies in the cup. Lift the cup by the string. Feel how much force you use to lift the cup this way.
- 3. Tape the two soda cans together, one on top of the other. Tape two paper clips on opposite sides of the upper can. The large end of each paper clip should stick up above the edge of the can.
- 4. Place the long end of a flexible straw through the paper clip loops so that the straw rests on top of the can. This straw is the *axle* of your windlass. Bend the short end of the flexible straw upward.
- 5. Bend the second straw at the flexible joint. Attach the long end of the second straw to the short end of the first. The second straw is the handle or **wheel** of your windlass.
- 6. Now you can hang your cup of pennies from the windlass. Tape the end of the string to the straw about 2-3 cm from the end opposite the handle.
- 7. Turn the handle of your windlass and watch the cup of pennies rise! How does the force needed to lift the pennies this way compare to lifting the cup of pennies before?
- 8. Try lifting the cup by using your fingers to turn the straw axle at the end near the string. Is it easier or harder than using the handle?
- 9. Experiment with your windlass to see how many pennies you can lift.

Excerpt: "The Best of WonderScience," pg. 448, Delmar Publishers, 1997

### 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**.

## Refugees, Displaced Scientists, and Chemistry Communities: Creative Approaches to Support Chemical Practitioners Thursday, June 7, 2018

What can chemical science practitioners do to assist their colleagues displaced by war, political unrest, or other major events? Join a diverse panel of domestic and international scientists that will outline the issues facing displaced scholars and offer examples of creative activities to help colleagues in need.

## Chemistry and the Economy: 2018 Mid-Year Update

Thursday, June 14, 2018

Paul Hodges of International eChem and Bill Carroll of Carroll Applied Sciences return for our semiannual look at global economic factors and explore what opportunities lie in this new landscape.

## **The Opioid Crisis and Quest for Superior Analgesics without Addiction**

Thursday, June 21, 2018

Ajay Yekkirala of Blue Therapeutics shares how medicinal chemists are developing potent analgesics that are devoid of narcotic side effects to stop the cycle of pain-opioid abuse.

For more information and upcoming Webinars please see: https://www.acs.org/content/acs/en/acs-webinars.html

## 2018 DRUG DESIGN AND DELIVERY SYMPOSIUM Jun 28 Life as a Scientist in Biotech vs. Large Pharma Jul 26 Central Nervous System Medicinal Chemistry Aug 30 Central Nervous System Medicinal Chemistry Sept 27 Central Nervous System Medicinal Chemistry

Oct 18 Special Topic Nov 29 Special Topic

For information please see: <a href="https://www.acs.org/content/acs/en/acs-webinars/collections/2018-drug-design.html">https://www.acs.org/content/acs/en/acs-webinars/collections/2018-drug-design.html</a>

## REGISTRATION & HOUSING ARE NOW OPEN FOR THE FALL 2018 ACS NATIONAL MEETING IN BOSTON - AUGUST 19-23

ACS Members automatically save on meeting registration fees, and can save even more—up to \$400—by registering before July 9.

ACS has also negotiated special meeting attendee rates with a wide selection of hotels located near the Boston Convention & Exhibition Center (BCEC). ConferenceDirect is the official housing bureau for the meeting, and ACS does not endorse booking hotel reservations through any other source. All attendees who book their sleeping room through ConferenceDirect will receive discounted rates and complimentary internet access in their sleeping room.

Register and book your housing all in one place! <u>Visit the ACS website</u> for rates and category information. We look forward to seeing you in Boston!

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## 2018 ACS REGIONAL MEETINGS

Northeast (NERM) June 1 - 3 Lake Placid, NY NanoMARM) June 3 Bethlehem, PA Northwest (NORM) June 24 - 27 Richland, WA Midwest (MWRM)) October 21 - 23 Ames, IA Southeastern (SERMACS) October 31 - November 3 Augusta, GA Southwest (SWRM) November 7 - 10 Little Rock, A



## LOOKING FOR A CHEMIST?

CHEMPLOYMENT IS THE ANSWER! THE SAN DIEGO CHEMIST

is read by nearly 3000 chemists and biochemists in San Diego and Imperial Counties.

A two-month ad costs only \$80.00!

For information contact: Renate Valois - renate@sandiegoacs.org

## AMAZING FACTS ABOUT SCIENCE

http://www.ejyoti.com/technology/270-cleaning-and-shining-tips.htm

## 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,

## 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

Grea Elliot gelliott@palomar.edu 858-531-1149

## 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

## 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 judyk@ucsd.edu

858-534-8080

## University of San Diego

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

## YOUR AD HERE!

Place your ad in the next issue of

THE SAN DIEGO CHEMIST

For information contact:

Renate Valois - renate@sandiegoacs.org

## **UPCOMING EVENTS**

## SUMMER PICNIC

San Dieguito County Park, Solana Beach Sunday, June 24, 2018 \*\*\*\*\*\*\*

## SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST

Bristol Farms Café - Costa Verde Shopping Center - Genesee Avenue and Nobel Drive University City

Tuesday, July 10, 2018, at 9:30 AM

\*\*\*\*\*\*

## FIFTY-/SIXTY-YEAR MEMBER LUNCHEON

Tom Ham's Lighthouse, 2150 Harbor Island Drive, San Diego

Tuesday, July 17, 2018
\*\*\*\*\*\*\*\*

## 21st 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 20, 2018 \*\*\*\*\*\*

## 256th ACS NATIONAL MEETING & EXPOSITION

Boston, Massachusetts

August 19-23, 2018

\*\*\*\*\*\*\*

### **CHEM EXPO**

Outerspace - Chemistry Out of This World San Diego Miramar College, 10440 Black Mountain Road, San Diego 10440 Black Mountain Rd, San Diego

Saturday, October 27, 2018

\*\*\*\*\*\*

## **HOLIDAY PARTY**

Sufi Mediterranean Cuisine

5915 Balboa Avenue, San Diego, CA 92111 Wednesday, December 5, 2018

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

Matthew Baumgartner

Javier Borau Garcia

Alex Dang

Linh Doan

Ryan Helsel

Jennifer Keller

Loc-Ha Le

TinTin Luu

Nina Ly

Estefania Martinez Valdivia

Fabian Mejia

Mark Nygard

Alexei Pushechnikov

Helen Sedrak

Farnaz Shakib

Takafumi Takai

Haoran Yin

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	Chair	Jennifer Barber-Singh, BioFluidica, jbsingh@			858-869-7084	
Secretary   William Tolley, Secoast Science, Inc., <u>b. tolleys/Binn.com</u> (2018)   \$88-780-7952						
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Ken Poggenburg  **Remarke Cunnolins** **Remarke Valois (Newsietter Editor) **Remarke Valois (Newsietter	Desiree (	Grubisha, Halozyme Therapeutics	(2018)		858-254-5497	
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James O'Brien   (2020)   859-336-0654   Bill Szabo   Joann Um, Sutthwestern College   (2019)   859-550-0306   Joann Um, Sutthwestern College   (2019)   859-550-0306   Joann Um, Sutthwestern College   (2019)   510-823-8637   TANDING & SPECIAL COMMITTEES   (2019)			,		815-262-9697	
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