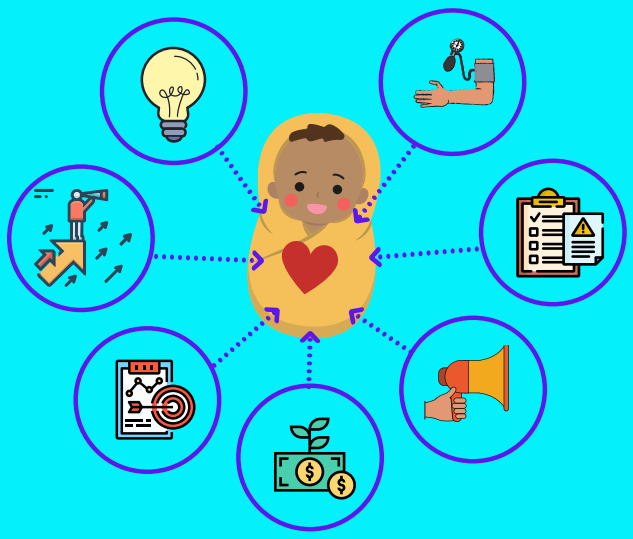
ACS Chemistry for Life®

The San Diego Chemist

San Diego Section

Volume 34, Number 4| April 2022

LEARNING TO FLY AS A MEDICAL DEVICE START-UP



Xina Quan Ph. D

Wed, April 20, 2022

7:00 PM – 8:30 PM PDT

ZOOM

EARTH DAY - EARTHFAIR 2022
(Sunday, April 24, 2022)

ACS Chemistry for Life®

ACS Chemistry for Life®

THE SAN DIEGO LOCAL SECTION PRESENTS

Learning to Fly as a Medical Device Start-up

Xina Quan Ph. D

DATE: Wed, April 20, 2022

TIME: 7:00 PM – 8:30 PM PDT

PLACE: Your Computer (ZOOM)

RSVP : Link (Click here to register)

ABOUT THE SPEAKER:
Xina Quan is the Co-founder & CEO of PyrAmes, a Silicon Valley-based startup. Over the past 40 years, Dr. Quan has led interdisciplinary teams that have transformed advanced materials research into innovative commercial products for photonics, telecommunications, optoelectronics, and consumer electronics applications. Dr. Quan received her training as a chemical engineer at MIT and Princeton. She is a registered patent agent with the US Patent Office and has more than 30 issued or pending US patents.

ABOUT THE PRESENTATION:
This talk will cover lessons learned since the idea of PyrAmes was hatched in 2015 to spin out of Stanford University with sensor technology from Prof. Zhenan Bao's research on electronic skin. Since then, we have been developing wearable devices to continuously and non-invasively monitor blood pressure for patients ranging from 1-day old premature babies to 98-year old seniors. While experiencing all the firsts of a fledgling company in creating and funding a new business, we have also been learning to fly through the quality systems, clinical studies, reimbursement and regulatory pathways required to bring a medical device to market. We are now poised to leave the nest and commercialize our first product to monitor the blood pressure of critically ill infants.

CHAIR NOTES

Dear esteemed members and colleagues,

I hope you made it to the **ACS National Meeting** this year. It was a great honor to meet so many members and leaders from across the country. I was touched by the positive feedback about our Section and the remembrances that so many members shared about our late colleague, **Tom Beattie**. Our Local Section's presence at the National Meeting would not have been possible without **Jackie Trishman** and our other volunteer ambassadors.

March was also a great month inspiring the next generation of scientists and engineers. **Robyn Araiza**, Chemistry Lecturer at CSU San Marcos, did a fantastic job coordinating the hundreds of volunteers needed to make Super STEM Saturday a success. I would also like to send a special shout-out to the **Southwestern College, Miramar College and the CSU San Marcos Student Affiliate Chapters**. They served hundreds of kids at the "Freaky Foam Faces" booth, which was among the most popular activities at the event.

I express my gratitude to **Prof. Yong Yan** from my Alma Mater, San Diego State University. Dr. Yan delivered a fascinating presentation on his green chemistry approach to synthesizing pharmaceutically important molecules using perovskite photocatalysts. If you couldn't make it, we archived the presentation. Send me an email, and I will share the recording with you.

Make sure you mark your calendar for our next distinguished speaker, **Xina Quan, Ph.D**. Dr. Quan was a director of Bell Labs for 20 years. She is now the CEO and co-founder of PyrAmes, a Silicon Valley-based medical device startup focusing on the cardiovascular health of pregnant women and critically ill infants. Dr. Quan will discuss her novel wearable technologies that monitor blood pressure. She will also share valuable lessons for anyone who has ever wondered what it takes to bring new medical technology to market. This presentation will be broadcast over Zoom on April 20th at 7 PM. **Click here to register for the event**.

On a final but equally important note, Earth Week is coming up! We are looking for volunteers to help run our activity booth at Balboa Park's Earth Fair on April 24th. Please reach out to me at jpgg@sandiegoacs.org if you want to be involved with this event.

I hope you all have a wonderful and chemistry-filled month of April.

With gratitude,

Juan Gonzalez

2022 Chair, San Diego Section of the American Chemical Society

SuperSTEM Saturday

More than, 7500 people returned to the CSUSM campus for SuperSTEM Saturday on March 12, 2022. With major sponsors Viasat, Thermo Fisher Scientific, Hologic, and the County of San Diego, SuperSTEM Saturday is hosted annually by The **Classical Academies and CSUSM** as part of the San Diego Science & Engineering Festival. This year, they were joined by student **ACS clubs from Southwestern College and Miramar College**. Their Mentos, Natural Dyes, Foam Monsters, and Chemistry Magic Shows were highlights among the 66 activities available.

Jackie Trischman kicks off SuperSTEM Saturday at CSUSM on March 12, 2022.

ACS Chemistry for Life®

PAST EVENTS

Student Chem Club members from **Miramar College** join the event, painting with natural dyes and creating mentos fountains.

The **ACS Student Club from Southwestern College** lead the Polyurethane Freaky Foam Faces booth.

More than, 7500 people came out to celebrate **STEM** after two long years of pandemic.

The **CSUSM Student ACS Club** prepare for the “Better Than Magic Chemistry Show".

THE CHEMISTRY AND ART OF GLASS

SPONSORSHIPS AND ADVERTISEMENTS

The San Diego Section of the American Chemical Society would like to thank our Corporate Sponsors.

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 2022 Chair, **Juan Gonzalez-Gonzalez** at jpgg@sandiegoacs.org. Once approved, Juan 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 potential customers 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:
Carolina Ibarra at cibarra@sandiegoacs.org

SECTION E-MAIL LISTSERVER!

Get up-to-the-minute reminders of Section or local events of interest.

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

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 20th 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:
Carolina Ibarra at cibarra@sandiegoacs.org

OPPORTUNITIES

VOLUNTEERS NEEDED

EARTH DAY - EARTHFAIR 2022
Sunday, April 24, 2022, Balboa Park • 10am - 5pm

San Diego ACS volunteers will set up a table in the Children's Activity Area. This special area has crafts, games, face painting, storytelling, and hands-on activities for children of all ages. Activities are intended to educate, entertain and inspire youth, in the spirit of Earth Day.

Please contact **Juan P. Gonzalez-Gonzalez**, jpgg@sandiegoacs.org , to volunteer Sunday, April 24, 2022. We need 3-4 persons for each of the 3-4 hour shifts on April 24th. Please support us and share your care for our earth, chemistry education, and the San Diego ACS!

ACS-Hach Programs

Please see link for application dates

About ACS-Hach Programs
The ACS-Hach Programs provide financial support for future and current high school chemistry teachers. Learn more.

Contact us: Email: hach@acs.org --
Phone: (800) 227-5558 ext. 8178

HPLC 2022 IN SAN DIEGO

The HPLC conference is postponed and will take place at the same location on June 18-23, 2022 at the Town and Country hotel and conference center in San Diego, CA.

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.

For more information and upcoming Webinars Click here.

MARCH 2022 MINUTES

San Diego Section, American Chemical Society
Executive Committee – Zoom Meeting
Mar. 3, 2022, 6:30 p.m.

Attendees: Sean Anderson, Jennifer Barber-Singh, Surya De, Juan Gonzales-Gonzales (chair), Desiree Grubisha (treasurer), Carolina Ibarra, Valerie Kuck, Julann Miller, Joan Schellinger, Jim Shih, Ryan Smith, Bill Tolley (secretary), Jackie Trischman, Christina Viala, David Wallace.

February Minutes (GG) – Question regarding in-person Project SEED, confirmed that some labs will be open for in-person research this summer to accept SEED students.
Motion: Accept minutes as submitted – Approved

Treasurer's Report (JGG/ DG) – Received money for two grants: DEIR Grant $1460; $1200 IPG for Chemistry and Art of Glass seminar; received $500 funds for hosting National Meeting; Annual Financial Report was submitted on time resulting in allotment of $19,431; expenses: $1203.54 for the glass seminar; storage space has new owner and rental price has increased to $112.95 per month and includes insurance required by new management; $300 for Newsletter preparation.

Square Payments (RS) – Section has done everything appropriately; reached out to ACS general council regarding any further action the Section should take, but no response to date.

Past Seminars (JGG) – "Chemistry and Art of Glass" funded using IPG money, different attendees than usual at SDACS seminars; post-meeting comments favor similar talks in the future.

Future Seminars (VK) -- Mar 16, Yong Yan – Solar cells to catalyze synthesis of pharmaceuticals, 21 registered to date; April topic – lessons learned in setting up a start-up -- sensor to measure blood pressure (premature infants, pregnant women); May topic -- science among indigenous people.

Super STEM Saturday (JT) – 65 booths at CSUSM Mar. 12, 10 am – 4 pm, hoping for no COVID restrictions, Miramar and SWC chemistry departments among groups hosting booths, demonstrations of making bioplastics from milk protein, and polyurethane faces; Chemistry Is Better Than Magic, 11 am- 2 pm, volunteers welcome.

Host Booth at National Meeting (JT) – Ideas of what to include at host booth; posters honoring efforts of Tom Beattie on behalf of ACS and poster of SDACS activities, map for attendees to indicate where they are from to get surfboard keyring and candies. KidZone – David McMillan, Nobel laureate on Sat. 2-4 pm at Fleet Museum.
Action: Jim S make electronic presentations available for host booth

Chem Olympiad (Joan S) – Seeking mentors; exam to be proctored via Zoom, proctors 11:30 to 1:50 pm, Mar. 26-27. 97 students registered to sit for the exam in San Diego, ~12 students will be recommended for National exam, 20 top students from the national competition will be recommended for training camp, San Diego students have done well in the past; discussion of in-person laboratory experience considering that USD laboratories are not open for non-USD personnel; National exam April 24; note that USD to host a talk on coffee chemistry on Mar 25.

Western Analytical and SABPA Symposia (JM) – The Section has sponsored a series of well-attended analytical symposia, but organizers have gone separate ways; SABPA symposia also have not happened since pandemic, anyone interested in participating in organizing future symposia could reach out to David Wallace
Action: David to send information for members to assess their interest in possible organizing committee.

Earth Day (JGG) – National ACS has booklets, Section has sponsored simple activities such as making paper; this year's topic "The Buzz about Bugs".

MARCH 2022 MINUTES

Section Phone and Mailbox (JGG) – The Section's mailbox has moved to 3209 Governor Drive, Jen Barber-Singh volunteered to retrieve any mail received; Section has maintained a phone line for incoming messages.
Motion: stop landline phone and switch to Google Voice – Approved

YCC (JGG) – No representative, but an event is scheduled.

Social Media (CI) – Growth in media interest, gathering data for next month ExComm

Summer Picnic (JGG) – Usually held on last Sunday in June, but this date is after college students are gone for the Summer; if there is to be a picnic this year, the Section needs to secure a venue -- we have used San Dieguito County Park in the past but recommended to consider other venues such as Santee Lakes; also recommended to move event to Sept – Oct. to avoid heat and to include students, consider catering rather than have Section members do food preparation.

Volunteers Needed (JGG) – KidZone associated with National Meeting, Earth Fair, Outreach ideas.

Adjourn: 8:08 p.m.

Next meeting: Apr. 7

Executive Committee Meeting Dates 2022

6:30– 8:00 PM

Thursday February 3
Thursday March 3
Thursday April 7
Thursday May 5
Thursday June 2
Thursday July 7
Thursday August 4
Thursday September 1
Thursday October 6
Thursday November 3

Zoom Meeting

Challenging the status quo in Strategic Patent Counseling.

Dentons combines legal, political, governmental, scientific and business experience to help you achieve your business objectives. We assist in patent prosecution and strategy for emerging and early stage companies. Our Intellectual Property and Technology team has considerable and broad experience in chemistry, pharmaceuticals, enzymology, biotechnology, immunology and other industry sectors.

Stephanie L. Seidman, Ph.D.
Admitted in the District of Columbia only

Partner, San Diego
D +1 619 595 8010
stephanie.seidman@dentons.com

Dentons. Now the world's largest global elite law firm.*

大成 DENTONS

dentons.com

© 2016 Dentons. Dentons is a global legal practice providing client services worldwide through its member firms and affiliates. Please see dentons.com for Legal Notices.

*Acritas Global Elite Law Firm Brand Index 2013-2015.

ILLINOIS INSTITUTE OF TECHNOLOGY

Master of Chemistry in Materials Chemistry

PART-TIME ONLINE PROGRAM

Rigor and relevance

Learn state-of-the-art synthesis characterization, and properties of materials and chemical systems.

Boost your communication and professional skills. Learn how to manage projects, leading teams with problem-solving strategies.

Professor M. Ishaque Khan
Director
312.567.3431 or khan@iit.edu

Visit:
https://go.iit.edu/mchm

NuMega Resonance Labs

FAST TURNAROUND, ACCURATE RESULTS

***NMR 500MHz*Mass*Elemental Analysis**

TEL: (858) 793-6057 *www.numegalabs.com*

2022 ACS REGIONAL MEETINGS

Middle Atlantic Regional Meeting (MARM)	June 1-4	Ewing, NJ
Northeast Regional Meeting (NERM)	October 2-5	Rochester, NY
ACS Midwest Regional Meeting - MWRM	Oct 19-21, 2022	check for info
Western Regional Meeting WRM	Oct 1 9-22, 2022	Las Vegas, NV

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

For information contact: Carolina Ibarra at cibarra@sandiegoacs.org

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

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

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

Southwestern College, Chula Vista
Juan Gonzalez
jgonzalez3@swccd.edu
619-421-6700x5947

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

YOUR AD HERE

Your ad in the next issue of

THE SAN DIEGO CHEMIST

For information contact:

Carolina Ibarra
cibarra@sandiegoacs.org

UPCOMING EVENTS 2022

****

LEARNING TO FLY AS A MEDICAL DEVICE START-IP
Dr. Xina Quan
Wed, April 20, 2022
7:00 PM-8:30 PM PDT
ZOOM

****

EARTH DAY - EARTHFAIR 2022
Balboa Park, San Diego, CA
http://www.earthdayweb.org/
Sunday, April 24, 2022

****

264th ACS NATIONAL MEETING & EXPOSITION
August 21-25, 2022
Chicago, Illinois

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY

WELCOMES ITS NEW MEMBERS

Nicole Bardales
Rachel Blau
Jubilee Cabellon
Serena Carosso
Robert Castro
Gang Cheng
Alison Chew
Qi Cui
Ann Dickinson
Julianna Follmar
Ines Forrest
Alexander Frank
TAKUMI FUKAZAWA
William Gao
Fereshte Ghorbani
Lenuta Gonzales
Amber Heidbrink
Yuta Hioki
Jason Imamoto
Emma Jackson
Michael Jackson
Malkanthi Karunananda
Patrick Kearney
Bin Li
Chuze Ma
Hendrik Meerman
Gerardo Ontiveros Cortes
Denise Perez
Christine Pham
Victor Rangel
Sahar Roshandel
Aaliyah Staples-West
Elisha Tan
Yves Theriault
April Wheeler
Wonjun Yim
Douglas Zhang
Haoqi Zhao
Zhaoning Zhu

Stay Connected

FOLLOW US ON SOCIAL MEDIA!

We want to hear from you!

2022 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY

EXECUTIVE COMMITTEE

Chair	Juan P. Gonzalez-Gonzalez, Southwestern College, jpgg@sandiegoacs.org	(2022)	619-813-8520
Chair-Elect			
Past Chair	Jim Shih, Eli Lilly & Co, jshih@sandiegoacs.org	(2022)	626-826-3561
Secretary	William Tolley, Seacoast Science, Inc., b_tolley@juno.com	(2022)	858-780-0978
Treasurer	Desiree Grubisha, Heron Therapeutics, desgrubisha@gmail.com	(2022)	858-254-5497
Councilors			
	Hui Cai, WuXi AppTec	(2022)	858-361-8838
	Surya K. De, Conju-Probe	(2024)	858-337-4961
	Desiree Grubisha, Heron Therapeutics	(2024)	858-254-5497
	Valerie Kuck	(2023)	973-744-5510
	Jackie Trischman, CSUSM	(2022)	858-414-3323
	David Wallace, Wallace Scientific Consulting	(2024)	858-638-1866
Alternate Councilors			
	Julann Miller, Waters Corporation	(2023)	800-252-4752 x6802
	Ken Poggenburg	(2022)	760-635-2573
	Ben Pratt, Pratt Pharma Consulting LLC	(2022)	858-945-7893
	Jim Shih, Eli Lilly & Co	(2024)	626-826-3561
	Shannon Woodruff, HP Inc.	(2023)	949-735-9021
Members-at-Large			
	Sean Anderson, Application Specialist, 3M	(2024)	661-714-6174
	Leeza Gutierrez-Ramirez	(2024)	619-601-3612
	James O'Brien, TE Connectivity	(2023)	858-336-0654
	Bill Szabo	(2022)	858-550-0306
	Joann Um, Southwestern College	(2022)	510-823-8637
	Christina Vialva, Southwestern College	(2024)	951-287-4503

STANDING & SPECIAL COMMITTEES

Awards Nomination Committee	
Valerie Kuck (Co-Chair)	973-744-5510
ChemExpo	
Jackie Trischman, CSUSM	858-414-3323
Communications Committee	
Surya K. De, Supra Sciences, Inc.	858-337-4961
Desiree Grubisha, Heron Therapeutics	858-254-5497
Ken Poggenburg	760-635-2573
Carolina Ibarra (Newsletter Editor)	619-618-9240
David Wallace, Wallace Scientific Consulting	858-638-1866
Distinguished Scientist Awards Nomination Committee	
OPEN (Chair)	
Tammy Dwyer USD	619-260-4030
Barbara Sawrey	858-729-0689
David Wallace, Wallace Scientific Consulting	858-204-5412
Education Committee	
Joann Um (Chair), Southwestern College	510-823-8637
Valerie Kuck	973-744-5510
Joan Schellinger, USD	619-260-7960
EarthFair	
OPEN	
Finance Committee	
Bill Szabo (Chair)	858-550-0306
OPEN	
Fundraising Committee	
OPEN	
Government Affairs Committee	
Hui Cai, WuXi AppTec (Chair)	858-361-8838
Ken Poggenburg	760-635-2573
Law Committee	
Ryan C. Smith, Duane Morris LLP	619-744-2220
Mad Science Program	
OPEN	
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), Wallace Scientific Consulting	858-638-1866
Membership Committee	
OPEN	
Nominations Committee	
OPEN	
Outreach Committee	
Kevin McCowen, Wyatt Technology	(801) 719-0511
Julann Miller, Waters Corporation	800-252-4752 x6802
Picnic Committee	
OPEN (Chair)	
Jim Shih, Eli Lilly & Co.	626-826-3561
Professional Development Committee	
Valerie Kuck	973-744-5510
Public Relations Committee	
OPEN	
Senior Chemists Committee	
Ken Poggenburg (Chair)	760-635-2573
Seniors Breakfasts	
OPEN	
Women Chemists Committee	
Valerie Kuck	973-744-5510
Younger Chemists Committee	
Kristen Counsell, Drawbridge	319-830-3097
Christopher Fisher, CG Life,	860-455-5297
Alexander Rovira, Janssen Research and Development	858-784-3013
Brittany P. Witherspoon, Janssen Research and Development	619-373-2436
Voice Mail – San Diego Section	619-687-5570