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)
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.
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
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.
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”.
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!

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For more information, please contact: Carolina Ibarra at cibarra@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 20th of the month for publication by the end of that month.

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**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!

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Phone: (800) 227-5558 ext. 8178

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**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.
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”.
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

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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

2022 ACS REGIONAL MEETINGS

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<td>Northeast Regional Meeting (NERM)</td>
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<td>Rochester, NY</td>
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<td>Western Regional Meeting - WRM</td>
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EARTH DAY - EARTHFAIR 2022
Balboa Park, San Diego, CA
http://www.earthdayweb.org/
Sunday, April 24, 2022

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August 21-25, 2022
Chicago, Illinois
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