



ACS
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The San Diego Chemist


San Diego Section

Volume 37, Number 1 January 2025



AT THE EDGE OF THE PERIODIC TABLE:

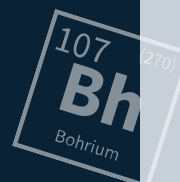
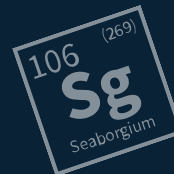
The Chemistry of Superheavy Elements

 Wednesday,
29th of January, 2025

 06.00PM - 7.00PM

 Online Event

[Register Now](#)



This talk will discuss the current status of superheavy element chemistry research and look towards what we can learn in the future.

Speaker

Jennifer Pore

Berkeley, California
Ph.D., Superheavy
Element Chemistry,
Simon Fraser University

Dear San Diego ACS Community,

It is with an abundance of both gratitude and humility that Jackie and I take over the position of Chair for our local community. Filling in Christina's shoes is a tall order, but at least there are two of us! As **Christina Vialva** steps down, I want to extend immense appreciation for everything she has built up over the past year, and I am excited to continue working with her in a different capacity for 2025.

I joined the ACS a few years ago with the intention of meeting more people in the chemistry community who share similar interests to myself, and to learn more about a world which I was planning to become a part of. I came from an **educational background built on arts and literature** originally, but over the past near decade of working in **biotech**, I came to the realization that I wanted to pursue more knowledge in **biochemistry**. Furthermore, I decided to enroll back in community college and am now in the midst of completing a second degree.

Jackie Trischman, on the other hand, not only serves as the **Dean of the College of Science, Technology, Engineering and Mathematics at CSU San Marcos**, but also **previously served as Chair** for our section. She comes back to this position with a wealth of knowledge and experience which is an incredibly useful resource for our community, and I am lucky to have her by my side for my inaugural year.

Key Initiatives For 2025:

1. Diversity and Membership:

One of the focuses during Christina's term was to bring in more diverse community members and to emphasize that chemistry is truly for everyone. She did this with some amazing events that focused on our **younger student community as well as the LGBTQ+ section of scientists in San Diego**. We plan to expand and build upon this work in the coming year through the building of specific teams that focus on our **Young Chemists and our Women Chemists** in San Diego. **Jiyue Chen**, who holds the position of **Chair Elect**, will be instrumental in helping to lead and guide these teams to success. We also intend to have many fun events this year that focus on our legacy members to continue and bring value and education to your membership.

2. Building Stronger Connections:

As I mentioned previously, one of the reasons I was drawn into the ACS from the start was to meet other members in the chemistry community. Since 2020 when COVID came along and forced us all to learn other ways to engage with each other, many people continued to hold onto habits of less in person interaction. While the internet is a great tool that allows more accessibility to a larger audience for any one event, I would like to see us have more **in person activities where members can meet face to face and build stronger relationships.**

3. Focusing on Health and Innovation:

A key interest for me in the world of biochemistry is the creation of new technologies that allow for synthetic cell growth and even whole organs. While this is something very much on the bleeding edge of science still, I would like to explore topics around the expansion of **healthcare technologies.** We also have some great events on the horizon that focus on different aspects of health, including **mental wellness** and even **wildfire chemistry** which is relevant to the unfortunate real world events occurring just north of San Diego.

This year looks to be full of promise and with a great local section team, we are confident that we can achieve our main objectives and have a great 2025. We are thrilled to kick off January with an exciting presentation by **Jennifer Pore, Ph.D.** Join us as she delivers her talk titled **At the Edge of the Periodic Table: The Chemistry of Superheavy Elements** and explores the fascinating world of Superheavy Elements and how they may be challenging the very foundation of the Periodic Table. Don't miss this insightful talk!" [Register here.](#)

I look forward to providing updates on our key initiatives and revealing more interesting events. Also, we have the **ACS Spring 2025** coming to us in March! I hope you all feel the same excitement that we all do.

Once again, I would like to thank you all for your confidence in our team. Here is to a fun and exciting 2025!

Sincerely,

Max Mahler and Jackie Trischman,
San Diego ACS Local Section Co-Chairs

At the Edge of the Periodic Table: The Chemistry of Superheavy Elements

[Register here](#)



Speaker

Jennifer Pore

Berkeley, California

Ph.D., Superheavy

Element Chemistry,

Simon Fraser University

About the Speaker:

Jennifer Pore leads an innovative gas phase chemistry program at Lawrence Berkeley National Laboratory, where she investigates the fundamental properties of superheavy elements, examining them one atom at a time. A San Francisco native, she earned her Bachelor of Science at Mills College, a women's college in Oakland, CA. She then moved to Canada to complete her Master's and Ph.D. in nuclear science before returning to California and joining the Lawrence Berkeley team. Her primary research interest focuses on probing the chemical properties of superheavy elements to explore whether the periodic table should be reorganized.

About the Talk:

The Periodic Table of Elements (PTE), one of science's biggest celebrities, might need revisions. It is well-recognized, even by elementary students, that the PTE elegantly organizes the elements by their chemical properties. But what if the chart adorning classroom walls is wrong? The Superheavy Elements ($Z > 103$) were added to the PTE by increasing proton number at the bottom of the chart. Yet, the actual chemical behaviors indicated by these placements may be significantly different from the true properties of these elements due to the onset of relativistic effects. In the past, studying the chemical properties of SHEs has been tough - they don't exist naturally on Earth and need to be created one atom at a time in nuclear physics labs. They are also highly radioactive with short lifespans, making their properties hard to pin down. This talk will discuss the current status of superheavy element chemistry research and look towards what we can learn in the future.

**From Stardust to Life: The
Chemistry of Habitable Worlds**
ACS Webinars January 22, 2025

[Click here](#)

**Innovating Everyday Chemicals with
Green Chemistry: More Sustainable
Lubricants, Solvents, and Fertilizers**
ACS Webinars

January 23, 2025 @ 11AM

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**Simple Steps to Update Your Will and
Leave Your Legacy**

ACS Webinars January 30, 2025

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**Innovative LC/MS Techniques for
Oligonucleotide Analysis Without Ion
Pairing Reagents**

FIRST SESSION: January 29, 2025

SECOND SESSION: February 19, 2025

[Click here](#)



Executive Committee Meeting

Dates 2025

6:30- 8:00 PM

Feb 6th,

March 6th,

April 3rd,

May 1st,

June 5th,

July 10th,

August 7th,

September 4th,

October 2nd,

November 6th,

December 4th.

Zoom Meeting



Graduate Student Symposium ACS Spring 2025

Bonds that Matter
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PROFESSIONAL MENTORING PROGRAM (PMP)

Kick Off Event
Thursday,
Sept. 19

End of Year
Networking
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Wed., April
30, 2025

Join us as a Mentor!
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September 13.

MENTOR APPLICATION



PMP WEBSITE



QUESTIONS? CONTACT ROBYN ARAIZA, FACULTY DIRECTOR, AT RARAIZA@CSUSM.EDU



INDIVIDUALS WITH DISABILITIES WHO WOULD LIKE TO ATTEND THIS EVENT SHOULD CONTACT THE MATHDEPT@CSUSM.EDU REGARDING ANY SPECIAL ACCOMMODATION NEEDS. IT IS REQUESTED THAT INDIVIDUALS REQUIRING AUXILIARY AIDS SUCH AS SIGN LANGUAGE INTERPRETERS AND ALTERNATIVE FORMAT MATERIALS NOTIFY THE EVENT SPONSOR AT LEAST SEVEN WORKING DAYS IN ADVANCE. EVERY REASONABLE EFFORT WILL BE MADE TO PROVIDE REASONABLE ACCOMMODATIONS IN AN EFFECTIVE AND TIMELY MANNER.





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NON-PROFIT ORGANIZATIONS!

Does your non-profit organization have an upcoming event that might be of interest to members of the ACS – San Diego Section? If so, please send your announcement to our 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

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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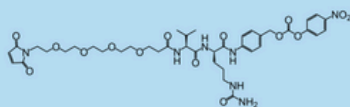
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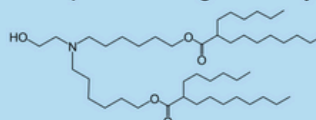
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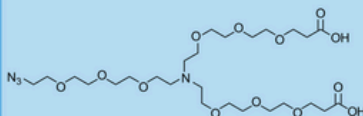
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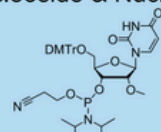
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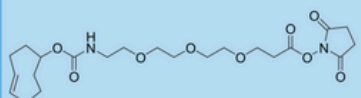
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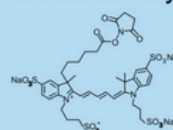
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Do you hire student workers?

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

Vacant

San Diego Mesa College

Synthia Chang
schang001@sdccd.edu

San Diego Miramar College

Vacant

Southwestern College, Chula Vista

Juan Gonzalez
jgonzalez3@swccd.edu
619-421-6700x5947

University of California, San Diego

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