

Fall Dinner Meeting & Scientific Presentation

Wednesday November 6, 2024

Waters Corporation Facility
3540 Howard Way, Suite 100/125
Costa Mesa, CA 92626

Make your reservation
NOW



Social: 5:30 PM  Dinner: 6:00 PM  Program & Presentation: 7:00 PM

Reservations

Please contact us as soon as possible, but no later than 12 noon on Monday November 4, 2024 at OCACS@sbcglobal.net. Indicate if you will be attending the dinner and program or the program only. List all the names of attendees and special food requests like vegetarian or gluten free. There is a limit on the number of attendees, so make your reservation early.

Dinner cost is \$25 for members and members' significant others; \$35 for non-members or those without reservations. **Teachers and students who register for this meeting will receive a \$10 discount on their dinner.** Since we are not at this time set up to accept credit cards, please plan on using a check or cash.

Note: OCACS pays the caterer on the basis of the number of dinner reservations made. Your reservation for dinner is a commitment to pay.

Recognition

We congratulate members of the Orange County Section who have reached milestones of 50, 60, and 70 years of membership and service to the American Chemical Society:

- *50 Year Members:* Dr. Arthur Richard Chamberlin, Dr. James R. Coughlin, Mr. Michael Charles Pohl, Dr. Ercan Unver
- *60 Year Members:* Dr. Robert Charles Belloli, Dr. Henry N. Po, Mr. David L. Ruff, Ms. Charlotte Klein Varzi
- *70 Year Members:* Dr. Roger Huntington Mann, Mr. Thomas Kilbourn Stone, Dr. David Wilner

Presentation

Chemical Analysis of the Spiny Redberry Plant

Robyn Araiza

Lecturer, Chemistry/Biochemistry Dept., Cal State University San Marcos

Abstract:

The Spiny Redberry plant, *Rhamnus crocea*, is the host plant for the eggs of the Hermes Copper Butterfly, a rare butterfly native to San Diego County. Although *R. crocea* is found throughout most of California and into Baja California, the butterfly limits their egg laying to a select area of San Diego County. This limited region combined with habitat loss from wildfires and other environmental factors

has led to the butterfly receiving a threatened classification. This research project aims to determine if there is a metabolic variation in the leaves resulting in the irregular egg laying behavior and to establish the structure of a new molecule discovered within the leaves. Samples of the plant were collected both within the egg laying region and outside. Leaf extracts were analyzed using Untargeted Mass Spectrometry. Undefined compounds were purified and elucidated using Nuclear Magnetic Resonance.

Speaker Biography

Robyn Araiza is a dynamic Lecturer in the Faculty at California State University San Marcos, where her passion for education and community building shine through. A proud double alumna, she earned both her Bachelor of Science in 2007 and her Master of Science in 2020 in Biochemistry from CSUSM. Currently, Robyn is advancing her expertise by pursuing a PhD in Analytical Chemistry under the mentorship of Dr. Kevin Schug at the University of Texas at Arlington, conducting research in the lab of Dean Jackie Truchman at CSUSM, in collaboration with Dr. Ben Naman at the San Diego Botanic Gardens. Beyond her academic pursuits, Robyn plays a vital role as the coordinator for Super STEM Saturday, an engaging event that attracts over 14,000 attendees to campus each spring as part of the San Diego Festival of Science & Engineering. She also leads the STEM Professional Mentoring Program, which connects STEM students with industry professionals, fostering valuable mentorship opportunities. As a passionate advocate for equity in STEM, Robyn is committed to diversifying instructional strategies both inside and outside the classroom. She consistently seeks innovative ways to inspire students and share her enthusiasm for the sciences, emphasizing that the wonders of science are all around us and empowering the next generation of scientists.

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American Chemical Society, Orange County Section

PO Box 211, Placentia, California 90871

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