

THE Indicator

Serving 6,200 ACS Members



Marlon Moreno
New York ACS Outstanding Service Awardee
See page 12



ACS Local Section
North Jersey



ACS Local Section
New York

FEBRUARY 2023

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THIS MONTH IN CHEMICAL HISTORY

Harold Goldwhite, California State University, Los Angeles • hgoldwh@calstatela.edu

In this column I continue to review the chemistry of 90 years ago as seen through the “Annual Reports of the Progress of Chemistry” published in London by The Chemical Society. The report for 1933 is Volume XXX, the series having started in 1903.

There has been considerable work on reactions of atoms and free radicals. Atomic hydrogen, oxygen, bromine, and chlorine are prepared by electric discharge through the molecular gases at low pressures and have been used to study kinetics of such reactions as $X + H_2 = XH + H$ ($X = Cl$ or Br). Alkyl radicals are prepared by heating lead tetra-alkyls, or by reaction of alkyl halides with sodium vapor. Such radicals react with thin films of zinc, tellurium, antimony etc. to form organometallic compounds. The cyanogen radical is formed by reaction between cyanogen halides and sodium vapor.

The influence of traces of water vapor on the reaction between hydrogen and chlorine has been debated for years. Proponents of the influence of “intensive drying” have suggested that in the total absence of water the reaction simply does not occur. Tests by several groups have now conclusively shown that the reaction does occur spontaneously even in the total absence of water. The Nernst chain reaction mechanism for the reaction is thus upheld, the initial step being photochemical cleavage of the chlorine molecule.

Spectroscopic methods have been refined during the year leading to intramolecular distances, angles, and force constants for molecules including water, ammonia, and phosphine. Vibrational data are obtained from infrared, Raman, and ultraviolet spectra, leading to bond angles and force constants for a number of molecules including sulfur dioxide, chlorine dioxide, and chlorine monoxide.

Precise atomic weights are the foundation of stoichiometry, and the work of Aston on the mass spectrometry of the elements is critical. The Aston group has examined 35 elements containing 2 or more isotopes. The resulting atomic mass determinations agree in the majority of cases with atomic weights obtained by chemical methods to 1 in 4000. In a number of cases Aston’s work has led to re-examination of the chemical determinations and a correction, notably for selenium. Boron has been a continued challenge with varying results. (In fact the atomic weight of boron does vary substantially from source to source because of isotopic variability of this light element.) Chemical determinations of atomic weights continue and improved values have been published for Se, Te, As, Th, Cs, and In among others.

The most remarkable new compound prepared during the year was OF_2 , a compound that a number of (fallible) theoreticians had predicted should not exist! It was prepared by passing a slow stream of fluorine through dilute aqueous NaOH solution. Equally remarkable is O_2F_2 , an unstable compound formed by electric discharge through a mixture of oxygen and fluorine. Sulfur monoxide, SO, is a gas made by electric discharge of a mixture of sulfur vapor and sulfur dioxide at low pressure. Pure SO persists for several days in clean glass vessels. It does not react with oxygen unless an electric spark is used. When condensed by liquid air it decomposes on warming to give sulfur dioxide and sulfur,

Careful examination of sulfur hexafluoride made by direct reaction between sulfur and fluorine shows the presence of a homolog, S_2F_{10} , with a boiling point of around $0^\circ C$. And there are indications of even higher homologs. A new metal hexafluoride, rhenium hexafluoride, has been obtained by reaction between the heated metal and gaseous fluorine. The compound forms light yellow crystals of m.p. $26^\circ C$. A new higher chloride of rhenium, $ReCl_5$, has now been made by direct reaction between the elements. It is decomposed by heat giving chlorine and rhenium trichloride.

More about 90-year old chemistry – that still seems quite relevant today – next column.

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CONTENTS

February Calendar	4
New York Section Meetings	5
The Chemistry of Love	5
MetroWomen Chemists' Committee	6
Long Island Subsection	7
US National Historic Chemical Landmark	9
North Jersey Section Meetings	10
NJACS NMR Topical Group	10
MARM 2023	12
Honoring Chemistry Teaching Excellence	14
Awards & Grants	18
William H. Nichols Distinguished	
Symposium & Award Banquet.	19
Call for Nominations	22
Opportunities	23
From our Partners	25
Job Board	27

EDITORIAL DEADLINES

March 2023	February 16, 2023
April 2023	March 16, 2023
May 2023	April 16, 2023

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[Click here.](#)

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February Calendar

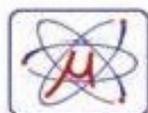
NORTH JERSEY SECTION**Monday, February 20, 2023**North Jersey Executive Committee Meeting
*See page 10***Thursday, February 23, 2023**NMR Topical Group
*See page 10***NEW YORK SECTION****Thursday, February 2, 2023**Long Island Subsection *See page 7***Monday, February 13, 2023**Board of Directors Meeting *See page 5***Wednesday, February 15, 2023**MetroWomen Chemists' Committee
*See page 6***Saturday, March 5, 2023**The Chemistry of Love *See page 5***Wednesday, March 8, 2023**Westchester Chemical Society *See page 7***Friday, April 14, 2023**[William H. Nichols Distinguished Symposium and Award Dinner](#)
See page 19

Ad Index

Micron.....	4
Chinese American	
Chromatography Association.....	18
Robertson - Microlit.....	22
Riverdale Scientific, LLC.....	23

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NEW YORK SECTION MEETINGS

BOARD MEETING DATES FOR 2023

The dates for the Board Meetings of the ACS New York Section for 2023 are below. The meetings are open to all – everybody is welcome, but an RSVP for in-person attendance is required 5 days before the meeting. All members who would like to attend any of the meetings should inform the New York Section office by emailing Ms. Bernadette Taylor. Mary Virginia Orna, Ph.D. will Chair all meetings. The meetings will start at exactly 6:30 PM.

The board meetings dates are, as follows:

Monday, February 13, 2023 ([virtual only](#))

Monday, March 20, 2023 (hybrid)

Friday, April 14, 2023 (in person)

William H. Nichols Symposium and Medal Award Dinner at the Sonesta Hotel, White Plains, NY.

Monday, June 5, 2023 (hybrid)

Monday, September 18, 2023 (hybrid)

Monday, November 20, 2023 (hybrid)

Please note that there will also be an in person meeting of the Finance Committee on Wednesday, **November 15, 2023**.

More information will be posted in future monthly issues of *The Indicator* and on the New York ACS [website](#).

Submissions for the March issue of The Indicator are due on February 16th.

<http://www.theindicator.org/>



2nd Annual
Chemistry of Love

Sunday March 5th, 2023 | 10am - 2pm
Pace University | Bianco Room

There is a holiday dedicated to it, millions of poems about it, industries built around it, and no other word to perfectly describe it: LOVE. This four-letter word is the most fundamental human need.

What are the chemical aspects of "love"?
Learn and discuss endorphins and how to increase this important hormone, foods that release endorphins and the biochemical process involved, flavors and scents associated with "LOVE" and the chemical components of such, and the beautiful and complex human heart.

Keynote Speaker
Dr. Eric Chang

For more information, contact:
Dr. JaimeLee Rizzo
Coordinator, "Chemistry of Love"
jrizzo@pace.edu

THE CHEMISTRY OF LOVE

Celebrate the Chemistry of Love with with a fun-filled and informative discussion of love, the most fundamental human need. There will be HEART-healthy blender bar breakfast, LOVELY gifts, lunch, fun raffles and more! [Registration](#) is FREE for this in-person event, but *seats are limited* so [register](#) early.

Speaker: Dr. Eric Chang
Pace University

Date: **Sunday, March 5, 2023**

Place: Bianco Room, Pace University
Time: 10:00 AM – 2:00 PM in person
[Registration](#) is required

Proof of vaccination or negative COVID test is required to attend.

METROWOMEN CHEMISTS' COMMITTEE

An event in celebration of the life and legacy of Dr. Marie Maynard Daly with the National Historic Landmark Dedication

More Than a Bunsen Burner

Speaker: [Rolande Hodel, Ph.D.](#), Founder and President
[AIDSfreeAFRICA](#)

Date: **Wednesday, February 15, 2023**

Time: 12:00 PM

Place: Pace University
One Pace Plaza
New York NY 10039
and via [Zoom](#) (Passcode: 618884)



For further info, contact [Rita K. Upmancis, Ph.D.](#)

Abstract

[AIDSfreeAFRICA](#)'s mission is to implement and advance pharmaceutical drug production and accessibility in Sub-Saharan Africa. Dr. Hodel will share her experiences navigating various obstacles and situations including being a woman in a STEM field, an immigrant from Germany, and having a blue-collar family upbringing. She will discuss AIDSfreeAFRICA, the non-profit organization she founded after seeing an opportunity to apply a career in pharmaceuticals into an international context. The audience may find that this presentation alters their perception of our common perspective of developing countries, its people and work. The talk encourages people to learn about the barriers she encountered and overcame, how she gained support, and how she envisions the future of the organization.

Biography

Dr. Rolande Hodel, Chair of the Westchester Chemical Society, was born in Germany, is a US citizen, and a legal resident of Cameroon. She received an M.S. in Inorganic Chemistry from the University of Kansas; and a Ph.D. in Organic Chemistry from the City University of New York. She has worked for companies such as BASF/Germany, Nanocrystals Technology/NY, Pharmaceutical Discovery Corporation/NY (today Mannkind/CT) and Emisphere Technologies/NY. For the past eleven years, she was an Adjunct Lecturer in Chemistry at Westchester Community College. She founded and is President of the non-profit, AIDSfreeAFRICA that supports manufacturing pharmaceuticals in Cameroon. She is active in the American Chemical Society, Chemists Without Borders and Servas International. Dr. Hodel has won various humanitarian awards such as the 2009 US Astellas Award presented by the American Chemical Society, the Service to International Legacy of Service Award presented by Rotary NJ, and the Harvard African Law Association World AIDS Day award, presented by Harvard Law School, Cambridge, MA.

The Indicator is posted to the web 1ST of the month at
<http://www.theindicator.org/>

LONG ISLAND SUBSECTION

Let's Talk about Cannabinoids

Speaker: Ling Huang, Ph.D.
Department of Chemistry
Hofstra University

Date: Thursday, February 2, 2023

Time: 6:00 PM via [Zoom](#)



Abstract

Cannabinoids extracted from cannabis species such as marijuana and hemp gained enormous popularity among consumers as the cannabinoids' medicinal, recreational, and legal statuses quickly shifted recently. A 2018 farm bill legalized the industrial growth of hemp and propelled the research and development of products containing cannabidiol, or CBD. In addition, as the legalization of medical and recreational marijuana propagated in increasing number of states, there is a surge of designer cannabis products including gummies, oils, capsules, dog treats, hair product, skincare products and more. They contain a variety of cannabinoids including delta-9 THC, delta-8 THC, and CBD. The analytical challenges associated with these complex matrices created hurdles for forensic labs and other analytical labs that concern consumer safety. In this talk, we will briefly go over the history of cannabinoids and discuss our efforts in improving the rapid analyses of these new designer products.

Biography

Dr. Ling Huang earned a PhD in analytical chemistry from the University of Virginia and currently serves as an Associate Professor of chemistry at Hofstra University. Dr. Huang's current research fields are the forensic applications of instrumental analysis. Specifically, his group is developing fast and accurate NMR detection and quantification techniques for designer drug analysis, simple and low-cost extraction and HPLC cannabinoid quantification methods, and quantitative elemental analytical methods for gunshot residues with X-ray fluorescence spectroscopy.

WESTCHESTER CHEMICAL SOCIETY

The Science and US History of Whisky Making

Speaker: Victor Margiotta, M.S., President
VMAR Food Labeling Associates, LLC

Date: Wednesday, March 8, 2023

Time: 5:30 PM refreshments
6:00 PM Seminar

Place: Gateway 110
Westchester Community College (Hybrid option available)

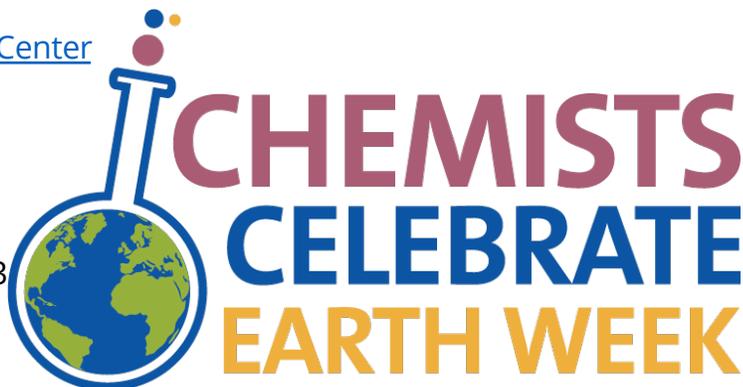


10th ANNUAL CHEMISTS CELEBRATE EARTH WEEK EVENT

Where: [Jones Beach Energy & Nature Center](#)
150 Bay Parkway
Wantagh, NY

Date: **Sunday, April 16, 2023**
[Register here for FREE](#)
Please register by April 8, 2023

Time: 11:00 – 3:00 PM



Join us at New York's famous Jones Beach as we celebrate Earth Week at the newly renovated [Energy and Nature Center!](#)

The day's event includes an introduction of Jones Beach by the Education Team, a tour of the Nature Center, a self-guided hike through the beach and preserve area, as well as snacks, lunch, and cool earth day gifts!

Space is limited and everyone must register (including children). Once registration has reached capacity it will be closed. There is a parking fee to enter Jones Beach.

Hope to "sea" you there!

[Click here to register.](#) Registration is FREE

For more information contact:

Prof. JaimeLee Rizzo
CCEW Coordinator
jrizzo@pace.edu



DR. MARIE MAYNARD DALY US NATIONAL HISTORIC LANDMARK DEDICATION

Where: Columbia University
Havemeyer Hall
3900 Broadway
New York, NY 10016

Date: **Friday, May 19, 2023**

Time: 10:00 AM – 2:00 PM



Celebrating the life and legacy of

Dr. Marie Maynard Daly

*First African American Female
Ph.D. in Chemistry*



National Historic Landmark Dedication

- Symposium honoring Dr. Daly's legacy with a National Historic Chemical Landmark dedicated in Dr. Daly's honor at her alma mater, Columbia University



High School Outreach Program

Visits to New York High School chemistry classrooms to inspire the next generation of STEM professionals from diverse backgrounds

US National Historic Landmark Dedication Ceremony

All are welcome to attend the dedication of the US National Historic Chemical Landmark honoring Dr. Marie Maynard Daly, the first African American woman to earn a Ph.D. in Chemistry. The dedication will be preceded by a symposium honoring Dr. Daly's life, contributions to science and ongoing legacy. Confirmed speakers include, the following:

- Dr. Linda Meade-Tollin (University of Arizona, *Emerita*)
- Dr. Mande Holford (Hunter College – CUNY)
- Dr. Sibrina Nichelle Collins (Lawrence Tech)
- Dr. Marc Walters (New York University)

The symposium will be followed with the screening of a short film about Dr. Daly's life and impact and the dedication of the US National Historic Landmark in her honor.

[Register here](#)

Help Us Inspire the Next Generation of STEM Professionals

The New York Section is celebrating Dr. Marie Maynard Daly throughout 2023. This includes the a symposium and National Historic Chemical Landmark dedication in her honor at Columbia University, school visits to discuss her life and promote diversity in STEM education, teacher outreach at MARM 2023 and a public exhibit at the New York Hall of Science. We need your help to honor her.

Click here to [volunteer](#)

Click here to [donate online](#)

Click here to [donate via check](#)

NORTH JERSEY SECTION MEETINGS

2023 NORTH JERSEY EXECUTIVE COMMITTEE MEETINGS

2023 North Jersey ACS Chair Justyna Sikorska and the Executive Council welcome you to our monthly NJACS meetings. Meetings will be held either virtually or in hybrid mode (virtually with an in-person option at the Merck Kenilworth site). The meetings are normally held on **Mondays from 7 pm to 9 pm once per month**. All members are welcome to attend and become more involved in section activities.

For any additional information including a link to virtual meetings and RSVP deadline for in-person meetings, please [click here to email our Communications Chair](#).

February 20 (virtual)
March 20 (virtual)
April 17 (virtual)
May 22 (hybrid)
June 19 (hybrid)

September 18 (hybrid)
October 23 (virtual)
November 13 (virtual)
December - TBD

NJACS NMR TOPICAL GROUP

Elucidating Spider Silk Structure and Assembly with NMR

Speaker: Gregory P. Holland, Ph.D.
Department of Chemistry and Biochemistry
San Diego State University

Date: Thursday, February 23, 2023

Time: 12:00 PM [via MS Teams](#)

Abstract

Over 300 million years spiders have evolved to produce six different silks and one glue-like substance. Spider silks are comprised almost entirely of protein and are used for a diverse range of applications including web construction, egg case production and wrapping prey. The silks vary dramatically in their mechanical and physical properties with the major ampullate silk (dragline) exhibiting a strength that exceeds steel by weight and a toughness greater than Kevlar while, flagelliform silk has an elasticity comparable to rubber. Our lab is focused on understanding the molecular structure and dynamics of the proteins that comprise the various spider silk fibers with MAS solid-state NMR. It is the folded structures and hierarchical organization of these proteins that imparts spider silks their impressive, yet diverse mechanical and physical properties. Our research team has been developing and applying SSNMR to probe secondary structure, hydrogen-bonding, side chain dynamics, and oligomeric protein assembly all of which are crucial to understanding spider silk formation and the resulting fiber properties. Recently, we have focused on using solution NMR to understand the protein-rich fluid within the various silk producing glands to investigate the conformational structure and dynamics prior to fiber formation and determine the important biochemical triggers responsible for converting this hydrogel-like protein solution to fibers with unparalleled, yet diverse mechanical properties. It is our belief that a better fundamental understanding of spider silk protein structure and assembly process will accelerate the ability to mimic and reproduce similar biologically inspired materials in the lab.



CONGRATULATIONS TO OUR 2022 VOLUNTEER OF THE YEAR SANDRA KEYSER!

Dr. Sandra Keyser has been an invaluable volunteer with the North Jersey Local Section since 2012. Sandra served as chair of the 2022 ChemExpo in October 2022, the North Jersey ACS's National Chemistry Week event, in partnership with [Liberty Science Center](#). Eight schools participated in ChemExpo and more than 1500 visitors attended the event. A variety of demonstrations were presented by over 60 volunteers, including high school and college students, professors, industrial and retired chemists, to provide visitors the opportunity to engage in learning the chemistry of fabrics.



Sandra also served in the organizing committee for Chemists Celebrate Earth Week (CCEW), and worked with the local high schools to generate a video collection of demonstrations related to the theme of CCEW. She also served as the lead judge for the website event of the virtual ChemOlympics in May 2022, in which the high school students presented the chemistry behind the Flint Michigan water crisis.

In addition, Sandra was the advisor and NJACS liaison for the Fair for Emerging Researchers (FER). The program featured a six-month mentorship program to guide 5th-8th graders through the scientific method and to support them in developing their own experiments. In April 2022, the program culminated in a science fair in which the participants presented their results to college science majors and chemists from the tri-state area. Sandra provided pedagogical, financial, and logistical recommendations to the planning team and advised and supported the judges during FER.

A large, colorful graphic that reads "THANK YOU!". Each letter is a different color and is being held up by a hand, suggesting a group of people expressing gratitude.

Finally, Sandra was also a key member of our communication committee, charged with posting on our social media and writing newsletter articles in a timely manner. Our local section is thankful for her invaluable contributions and her dedication for promoting our mission through these various outreach activities.

Sandra has been a long-standing NJACS volunteer with extraordinary dedication. Sandra chaired NJACS ChemExpo where 1500 visitors engaged in learning the chemistry of fabrics through the demonstrations by local students and volunteers. Sandra served the advisor and NJACS liaison for Fair for Emerging Researchers (FER) and made the mentorship program more robust with an outreach impact expanding from NJ to the broader northeast region. Sandra also coordinated CCEW virtual events and promoted education about sustainable planet. With her tireless efforts and outstanding leadership, Sandra influenced our local outreach activities and made a lasting and meaningful contribution to our local community.

MARLON MORENO NAMED NYACS OUTSTANDING SERVICE AWARDEE

Marlon Moreno, as a full-time faculty member at Queensborough Community College – CUNY (QCC), teaches an astounding load of twelve lecture and lab courses ranging from the non-science major courses to Introductory level to the General Chemistry II stage, including Introductory Organic Chemistry – a course not popular among aspiring students of nursing. Due to his prior experience with the Zoom platform, he served as the always available campus tech expert during QCC's transition during COVID. He is a star on the "[Rate My Professors](#)" website along with being founding faculty advisor to the American Chemical Society student chapter exemplifying the benefits and opportunities available through a professional organization. That is Marlon's day job. When he gets the time to do his "other" job – volunteer service to virtually every aspect of the chemistry profession – is anybody's guess, but mine involves a guesstimate of one hour of sleep per night, and maybe two on weekends. Why do I say this? Because two very important words – spearhead and backbone – precede virtually every mention of his activities for NYACS over a period of decades of service. For example: he served in the three-year Chair succession of the Long Island ACS subsection, key member of the LIACS Chemistry Challenge organizing committee, he transports of dozens of students to the LIACS monthly seminar, omnipresent volunteer during multiple National Chemistry Weeks, service as NYACS Information Technology Chair, applying for student travel grants to ACS meetings, service on the 44th MARM planning committee and the Frances C. Sterrett Symposium program committee. "Marlon is a friendly, no-nonsense educator of the highest caliber. He is beloved by his students and colleagues, with whom he is **overly generous with his time.**"



Marlon Moreno (left)
Outstanding Service Awardee

thank you

Describe a recent breakthrough or innovation in chemistry (and/or its applications)
that has improved the quality of people's lives today.



The New York Section is proud to sponsor a creative writing contest for high school students, [Chemagination](#). Imagining that they are living 25 years in the future, students are asked to write a magazine article with cover art that addresses the theme in green above. The [Intent to Participate form](#) is due February 6, 2023.

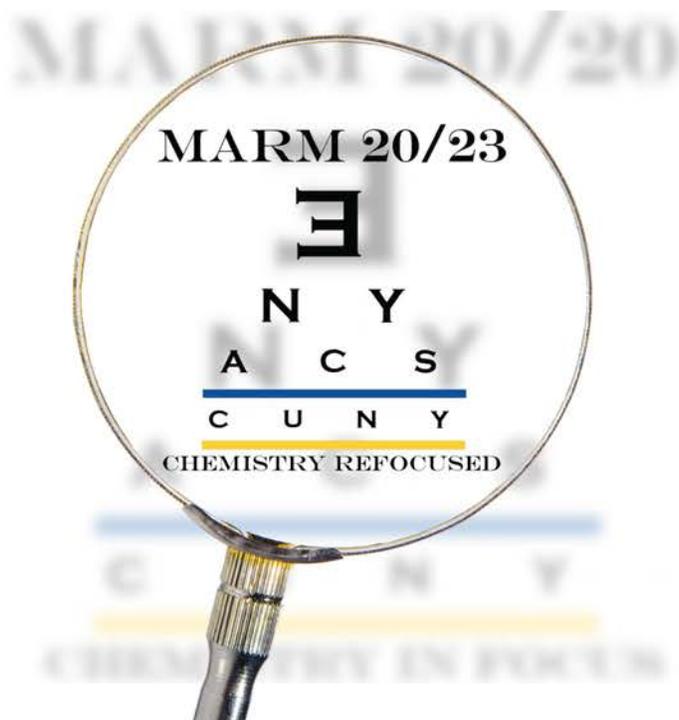
[More info](#)

MIDDLE ATLANTIC REGIONAL MEETING (MARM 2023)

51st Middle Atlantic Regional Meeting 2023
 June 9-10, 2023
www.marm2023.org



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Materials Chemistry

Featuring

Career Services
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Exposition
Senior Chemists' Luncheon
Awards Banquet

General Chairs: Alison Hyslop, hyslopa@stjohns.edu
 Joseph Serafini, serafini@stjohns.edu
 Program Chair: Brian Gibney, bgibney@gc.cuny.edu

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[Click here to submit an abstract. The deadline is March 6, 2023](#)

HONORING CHEMISTRY TEACHING EXCELLENCE

The New York Section is proud to honor Kristen Drury, M.A., of the William Floyd High School in Mastic Beach, NY, with the 2022 [Nichols Foundation High School Teacher Award](#).

In her passion for chemistry, Kristen Drury stands at the cutting edge of high school teaching by emphasizing particulate models to deepen students' conceptual understanding, and process oriented guided inquiry to strengthen students' process skills such as critical thinking, communication, problem solving and teamwork. She runs a culturally responsive classroom.

Ms. Drury earned her B.A. in chemistry and her M.A. in Liberal Science Studies both at Stony Brook University and has taught chemistry (General, Advanced Placement, Regents and Honors) at William Floyd High School, Mastic Beach, NY, from 2005 until the present. She has also been an Adjunct Professor at Stony Brook University since 2017.



2022 Nichols Foundation
High School Teacher Awardee
Kristen Drury, M.A.

“[She pushes students] to develop personal responsibility in their own lives. Her enthusiasm is unwavering and the spectacular atmosphere that she has created allows even students who struggle to succeed.” – Student of Ms. Drury

Ms. Drury's department chair enthusiastically describes her teaching style as “flipped” that encourages students “to use 21st century skills to think critically as they are introduced to content and then work collaboratively in the classroom to communicate their knowledge and apply their understanding to new scenarios...it is always exciting to walk into her class and observe the students actively engaged in the process of doing science.”

One of her fellow faculty members speaks of her profound influence on her colleagues by her readiness to seize every opportunity for professional development at the state and national levels and then return to the school to share her knowledge with everyone. But, says her colleague, she doesn't just share – she gets personally involved. She sits on committees that create and evaluate student materials, create teacher professional development content, and facilitate teacher training, because “she loves being involved in changing chemical education for the better.”

The New York ACS acknowledges financial support of this award program by the William H. Nichols Fund for Chemistry at the Boston Foundation

OUTSTANDING COLLEGE TEACHING AWARDS

The New York Section is proud to recognize the winners of the 2022 College Teaching Awards. These awards are presented annually to reward the highly effective teaching and inspirational leadership by chemistry faculty within the New York ACS. There are three categories based on the faculty member's institutional type. Calls for Nominations will be announced at the New York Section [webpage](#) for the 2023 awards.

Outstanding Two-Year College Chemistry Teaching Award

Dr. Sunej Hans, Bronx Community College – CUNY

Dr. Sunej Hans (on the left in the photograph) is a graduate of Hunter College, City University of New York (CUNY). She received her M.S. and Ph.D. in Organic Chemistry from CUNY and did her Postdoctoral work at the Brookhaven National Lab (BNL) and afterwards she accepted a position as a Research Scientist at BNL. Dr. Hans had joined Bronx Community College as assistant professor in 2014, and she was promoted to associate professor in 2017. At BCC she has taught the Recitation, Lecture and Lab components of Introduction to College Chemistry, Fundamentals of General Chemistry and Organic Chemistry courses. During COVID-19, she helped other faculty members to seamlessly transfer their courses online. Her teaching methodology is writing intensive: she assigns scientific topics where students can make the connection between science and their daily life. As a result, they get interested in the the connection between science and their daily life.

Many get interested in doing research for the topic and jotting down their ideas in the form of writing. Every semester, a few studious students sign an honor's contract with her and then she assigns a project to them which could benefit the entire class.

As one of the world's leading experts in developing chemical detectors for neutrino detection, Dr. Hans collaborates in a very active research program with Brookhaven National Laboratory in which she has involved and supported many student researchers. Her research involves the development of liquid scintillators for various multinational neutrino projects. She believes that scientific research is an essential part of a science education and it creates curiosity to learn/explore more and more. Over the years, Dr. Hans has mentored a total of 11 undergraduate students from Bronx Community College through Department of Energy and BNL programs. She and her students have presented their work at events at BCC, other CUNY colleges and Brookhaven National Lab.



Sunej Hans, Ph.D.
receiving her award from
NYACS Chair Mary Virginia Orma, Ph.D.

OUTSTANDING COLLEGE TEACHING AWARDS (continued)**Outstanding Four-Year Undergraduate College Chemistry Teaching Award****Dr. Sunghee Lee, Iona University**

Dr. Sunghee Lee (pictured at right), following a BS from Sung Kyun Kwan University and an MS from Pohang University in South Korea, took her doctorate in inorganic and analytical chemistry at Brown University, and then followed up with postdoctoral fellowships at Texas A&M and Duke Universities. Dr. Lee teaches courses in general chemistry, analytical chemistry, instrumental analysis, nanoscience and seminar. Her current research involves the chemistry of soft materials with an emphasis on their interfaces and surfaces, directed toward crystal engineering, understanding the cell membrane, and materials design needed for the development of advanced functional materials. But all of this is only scratching the surface! She has served as a mentor to over 94 undergraduates and is the recipient of numerous research and education grants. As founder of Iona Scholars Day (ISD), where scholarship and the creative activities of students, mentored by faculty members, are shared with the college and community at large, Dr. Lee not only gave life to undergraduate research at Iona, but facilitated active participation from all corners of the campus – cultivating a high-quality undergraduate education through faculty-student scholarship and engaged learning experiences. She is a recent recipient of the Council on Undergraduate Research Award that recognizes faculty who have facilitated undergraduate research, scholarship, and creative activities at their institution through mentorship and demonstrated leadership activities. Dr. Lee also established a research group called *Project Symphony*, in which undergraduate students learn team cooperation, critical reasoning, problem solving, and planning skills through interdisciplinary scientific research experience. She has published 41 papers with over 70 Iona student coauthors and together, they have presented at over 300 conferences. Through nearly two decades of scientific research with undergraduates, over 75 percent of her mentored students have progressed to advanced degrees in science.

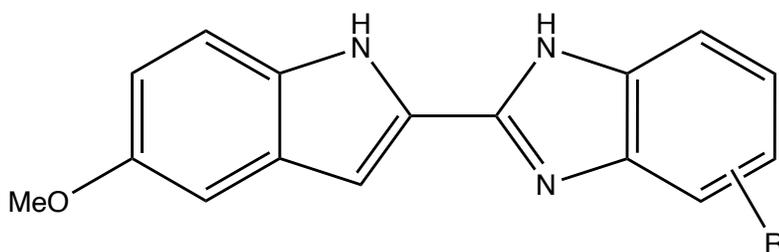


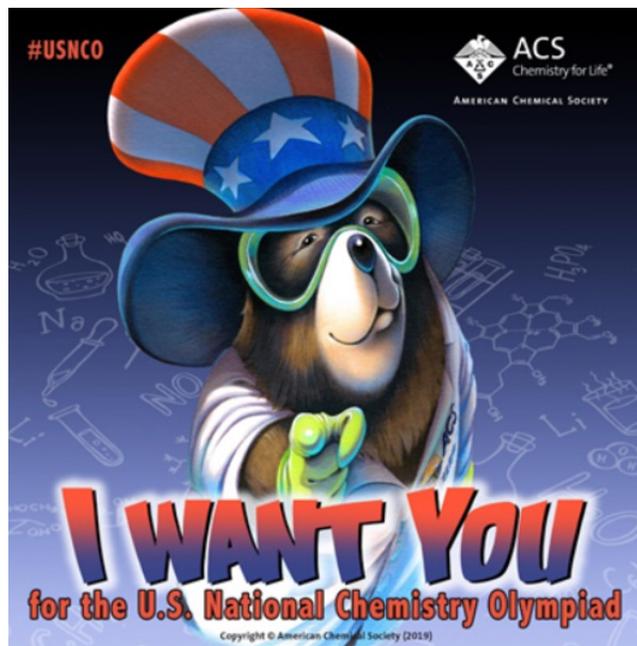
Sunghee Lee, Ph.D.

OUTSTANDING COLLEGE TEACHING AWARDS (continued)**Outstanding Four-Year Undergraduate College Chemistry Teaching Award****Dr. Sabesan Yoganathan, St. John's University**

Dr. Yoganathan (pictured at left) joined St. John's University as an Assistant Professor in the area of medicinal chemistry in September 2014. His educational and research training is in the area of medicinal chemistry, organic chemistry, microbiology and natural products drug discovery. Dr. Yoganathan completed his postdoctoral tenure at Yale University with Professor Scott Miller, where he investigated peptide-based catalysis for site-selective modification of polyfunctional medicinal natural products, including the clinically used antibiotics daptomycin and vancomycin. Peptide-based catalysis is an emerging area of research that enables medicinal chemists to identify novel analogs

of architecturally complex molecules as promising drug leads. Dr. Yoganathan grew up in Hamilton, Ontario, Canada, where he attended McMaster University and graduated with a B.Sc. (Hons) degree in chemistry, specializing in biological chemistry. He was an NSERC undergraduate research fellow in the laboratory of Professor John Valliant. In 2005, he moved to Western Canada to pursue his Ph.D. degree at the University of Alberta under the supervision of Professor John Vederas. His doctoral research focused on the development of chemical approaches to generate bioactive analogs of 'lantibiotics', which are a class of structurally unique peptide antibiotics. The Yoganathan lab in the Department of Pharmaceutical Sciences at St. John's University provides an interdisciplinary teaching and research environment for both graduate and undergraduate students at the interface of chemistry and biology. Dr. Yoganathan teaches introductory and advanced courses to the Pharm.D. students, and advanced graduate courses in the medicinal chemistry division. He also mentors both graduate and undergraduate students in his laboratory. The research in the Yoganathan lab focuses on developing chemical and biological approaches to discover novel medicinal natural products and their analogs as potential drug leads to target infectious diseases and cancer.



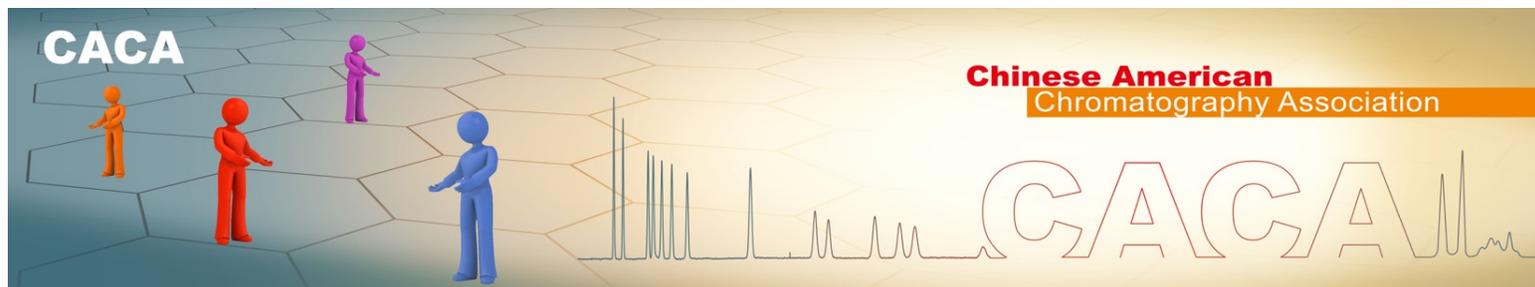
PROCTORS SOUGHT FOR VIRTUAL US NATIONAL CHEMISTRY OLYMPIAD

Proctors for the US National Chemistry Olympiad Local Exam are being sought at this time. The exam will be offered online on Saturday, March 5 and Sunday, March 6 from 10:00 a.m. to noon. Proctors will log into the Zoom session about 15-20 minutes before the exam and will monitor a breakout room of approximately 10 students for the duration of the exam. Please contact the New York ACS US National Chemistry Olympiad Committee Chair [Stephen Z. Goldberg](#) for more information.

Dates: March 5 and/or 6, 2023

Time: 10:00AM – Noon

Place: via Zoom

**AWARDS & GRANTS****LOCAL SECTION PUBLIC RELATIONS AWARD**

To recognize outstanding efforts by ACS local sections to promote chemistry to the public or to local section members

DUE FEBRUARY 15, 2023

[Learn more](#)

HELEN M. FREE AWARD FOR PUBLIC OUTREACH

An award of \$1000 that recognizes outstanding volunteer achievements in the field of public outreach by a member of the ACS who improves public recognition and appreciation for the contributions of chemistry.

DUE FEBRUARY 15, 2023

[Learn more](#)

CORPORATION ASSOCIATES LOCAL SECTION & INTERNATIONAL CHAPTER GRANT

Up to \$1000 for for ACS local sections and international chapters to promote industry-focused events.

DUE FEBRUARY 15, 2023

[Learn more](#)

LOCAL SECTION SUSTAINABILITY GRANT

Up to \$500 for the promotion of opportunities that enhance the chemical community's awareness of and the essential role of chemistry in responding to sustainability challenges.

DUE FEBRUARY 18, 2023

[Learn more](#)

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & AWARD BANQUET**Catalysis for a Sustainable Future**

A distinguished symposium honoring

Professor Karen Goldberg

University of Pennsylvania
*for pioneering work in
organometallic reaction mechanisms*

Date: Friday, April 14, 2023
Sonesta Hotel, White Plains, NY
[Hotel website](#)

Time: 1:00 PM – 9:00 PM

[Register here](#)

Symposium Program**1:00 PM Welcome**

Professor Mary Virginia Orna, 2023 New York ACS Chair

1:05 PM Opening of the Distinguished Symposium

Professor Ping Furlan, 2023 New York ACS Chair-Elect, US Merchant Marine Academy

1:15 PM Organometallic Chemistry of High Valent Late Transition Metals

Professor Melanie Sanford, Department of Chemistry, University of Michigan

This presentation will describe my group's studies of the design, synthesis, and reactivity of high valent complexes of Pd, Ni, Cu, and Co. As discussed throughout the talk, our efforts in this area were inspired by Professor Goldberg's seminal work in the area of high valent platinum chemistry.

2:00 PM Development of New First-Row Metal FOX Complexes for Alcohol Dehydration

Professor William Jones, Department of Chemistry, University of Rochester

We have prepared a new route to a series of fused bis-oxazolidene (FOX) bicycles with either chiral *rac*- or achiral *meso*- stereochemistries, and attached these to first row transition metals (Mn, Fe, Co, Ni, Cu). The coordination geometries observed vary from K₂-NN to K₃-NNN to K₃-ONN to K₄-NNNO coordination. In addition, an iron FOX complex has been found to be active for alcohol dehydration. We will describe in detail the dehydration of 1-phenylethanol to give styrene. Off-cycle α -methylbenzyl ethers are also formed reversibly, and their role in the catalysis will be elucidated. Deuterium labelling studies give additional insights into the mechanism of this reaction. Extensions to other alcohols will also be discussed.

Supported in part by the William H. Nichols Fund For Chemistry at the Boston Foundation

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & AWARD PRESENTATION**2:45 PM Catalytic Dehydrogenation of Alkanes by Transition Metal Complexes**

*Professor Alan Goldman, Department of Chemistry,
Rutgers – The State University of New Jersey*

The dehydrogenation of alkanes and alkyl groups to give olefins is a reaction of tremendous potential value. Low-oxidation-state organometallic complexes were demonstrated to be effective for this reaction 40 years ago by Crabtree, and great progress has been made since then. We have found that “PCP”-pincer-ligated iridium complexes are particularly effective for alkane dehydrogenation, with the use of olefinic acceptors or by purging H₂ from solution, and we have incorporated these reactions into tandem systems for several dehydrogenation-based catalytic transformations. More recently we have turned our attention to systems that operate based on fundamentally different principles, such as Phebox-ligated catalysts. The iridium Phebox unit is formally isoelectronic to (PCP)Ir, but whereas (PCP)Ir operates via C-H activation by Ir(I), (Phebox)Ir effects dehydrogenation via Ir(III) (as an acetate complex) and possibly Ir(V) intermediates. Such a high-oxidation-state catalytic cycle offers advantages for many potential applications of dehydrogenation. For example, we are interested in dehydrogenation achieved by proton-coupled electron transfer (PCET), which could ultimately be driven electrochemically or with O₂ as the ultimate hydrogen acceptor. We have found that (PCP)Ir can operate via PCET but turnovers are limited by over-oxidation. High-oxidation-state catalysts could allow us to circumvent this problem and may generally be more favorable for PCET-based dehydrogenation.

3:30 PM Coffee Break**4:00 PM Selective C-H Bond Activation of Alkanes: Collaborating with Nature to Develop Sustainable Chemistry**

Professor Rachel Narehood Austin, Department of Chemistry, Barnard College

The transformation of alkanes into terminal alcohols using molecular oxygen as the sole oxidant with a catalyst that utilizes earth abundant metal ions exemplifies the kind of chemistry required for a sustainable future. Our lab is focused on determining the structure of alkane monooxygenase (AlkB), the metalloenzyme that catalyzes the selective oxidation of most liquid alkanes in the environment and understanding how its structure facilitates its function. In this talk, we will share our knowledge of how AlkB works and what lessons it offers us as we develop chemistry for a sustainable future.

4:45 PM Molecular Oxygen as a Reagent in Late Transition Metal Organometallic Chemistry

*Professor Karen Goldberg, Nichols Medalist,
Vagelos Institute for Energy Science, University of Pennsylvania*

From environmental and economic standpoints, molecular oxygen represents the ideal oxidant for chemical transformations. It is readily available, inexpensive (particularly if used without separation from air) and environmentally benign. However, more expensive and/or hazardous oxidants are often employed in homogeneous metal-catalyzed oxidation reactions. In fact, typically organometallic chemists don't even let their compounds “see” molecular oxygen, using special equipment and procedures to rigorously protect their compounds from the air. Unfortunately, this deliberate exclusion of air has resulted in a lack of understanding of exactly how transition metal complexes react with molecular oxygen, which in turn has inhibited efforts to design catalysts for selective aerobic oxidations. Kinetic and mechanistic studies of the reactions of oxygen with various late metal alkyl and hydride complexes will be presented along with our nascent mechanistic understanding of these reactions. The generality of these aerobic oxidation reactions and their potential for incorporation into hydrocarbon functionalization strategies will also be discussed.

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & AWARD PRESENTATION**MEDAL AWARD BANQUET**

5:45 p.m. Social Hour

6:45 p.m. Medal Award Dinner

Presiding: Dr. Mary Virginia Orna
2023 Chair, ACS New York Section

ACS Greetings: Dr. Judith C. Giordan
2023 President, American Chemical Society

In-Person Recognition of 2020 and 2022 Medalists

Introductory Address: Dr. Rachel Narehood Austin
Barnard College

Medal Presentation: Dr. Mary Virginia Orna

Acceptance Address: Dr. Karen Goldberg
Nichols Medalist

BANQUET RESERVATIONS DEADLINE – APRIL 5, 2023

Symposium only:	\$75 Non-ACS Member \$50 for ACS Member \$30, Student, unemployed, retired \$0 50+ year ACS member
Banquet only:	\$200 Non-ACS Member \$170 for ACS Member
Symposium & Banquet:	\$225 Non-ACS Member \$195 for ACS Member
Table of 8 or more for symposium/banquet	\$195 per person (non-ACS Members)

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BANQUET RESERVATIONS DEADLINE – APRIL 5, 2023

CALL FOR NOMINATIONS

2023 MIDDLE ATLANTIC REGIONAL MEETING (MARM 2023) AWARDS

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences recognizes individuals and/or institutions who have advanced diversity in the chemical sciences and significantly stimulated or fostered activities that promote inclusiveness within the region. This award is sponsored by the [ACS Committee on Minority Affairs](#). Nominations are submitted via the [link](#) on the [award website](#).

Deadline: March 1, 2023

E. Emmet Reid Award in Chemistry Teaching at Small Colleges celebrates outstanding achievements in teaching chemical sciences at small colleges within the Middle Atlantic Region. Information on this award and nomination procedures are in this [document](#). Nominations are submitted via email to awards@marm2023.org Please state "Emmet Reid Award" in the subject line.

Deadline: March 8, 2023

E. Ann Nalley Middle Atlantic Regional Award for Volunteer Service to the ACS recognizes the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their regional activities. Please use this nomination [form](#). Nominations are submitted via email to awards@marm2023.org Please state "E. Ann Nalley Award" in the subject line.

Deadline: March 8, 2023

ACS Division of Chemical Education Middle Atlantic Region Award for Excellence in High School Teaching recognizes, encourages, and stimulates outstanding high school chemistry teacher in the Middle Atlantic Region. Please use this nomination [form](#). Nominations are submitted via email to awards@marm2023.org Please state "Award for Excellence in High School Teaching" in the subject line.

Deadline: March 8, 2023



Elemental CHN, S, X analysis
Metals by ICP-OES, ICP-MS, USP <233>
FTIR, UV/VIS spectroscopy, Optical Rotation
GC-MS/FID, Residual Solvents, Headspace

Ion Chromatography
KF Aquametry, Titrimetry
DSC, TGA, melting point
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OPPORTUNITIES

APPLY NOW FOR THE ACS SCHOLARS PROGRAM



The ACS Scholars Program awards renewable scholarships to **undergraduate students from historically underrepresented groups** in the chemical sciences, majoring in chemistry-related disciplines, and intending to pursue chemistry-related careers. Selected recipients are awarded up to \$5,000 per academic year. To date, over 3,500 students have received funding from the ACS Scholars Program.

[Apply by March 1, 2023](#)

CONSIDERING GRADUATE SCHOOL?

The ACS Bridge Program offers a 1 to 2 year Bridge Experience to help you make your application to graduate school more competitive. You gain research experience, take advanced courses, and are mentored in the application process. Applications due **March 15, 2023**

[Apply here](#)

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For High School Students & Teachers

ACS Project SEED

[Applications open in February](#)
[Webinar on February 15](#)

ChemClub Student Scholarship

[Due March 31](#)

ACS-Hach Second Career Teacher Scholarship

[Due May 1](#)

For Undergraduates

AWIS Dr. Vicki L. Schechtman Scholarship

[Due February 28](#)

ACS Scholars Program

[Due March 1](#)

ACS Bridge Program

[Due March 15](#)

Priscilla Carney Jones Scholarship

[Due May 1](#)

For Graduate Students / Postdocs

ACS Green Chemistry & Engineering
Conference Travel Awards[Due February 13](#)AWIS Distinguished Doctoral Research
Scholarship[Due February 28](#)

For Professionals

ACS Petroleum Research Fund

[Applications open February 13](#)
[Due March 10](#)

Catalyzing Advocacy in Science & Engineering (CASE) Workshop

Apply by Feb 12 to be sponsored by ACS!

Do you have an interest in science policy? ACS is fully sponsoring 2 students (grad or undergrad) to travel to Washington, DC and participate in the AAAS CASE workshop March 26-29, 2023.

- ✓ Learn about the federal policymaking process
- ✓ Network with policy professionals
- ✓ Collaborate with other students engaged in science policy

APPLY
HERE:

- Upload:
- CV/resume
 - Statement of intent (500 words)
 - Names of two references

Learn more
about AAAS CASE:

Applications due February 12, 2023 by 11:59 PM EST

Application Link: bit.ly/3kxubG7s→230111_advocacy_sc_fw_case

Project SEED

ABOUT:
 Project SEED is a summer fellowship program for high school students. Students spend 8-10 weeks in a lab working on a project with a mentor and additional lab members.

BENEFITS:

- Paid fellowship (\$3,200 - \$3,800)
- Hands-on or virtual research experience in a lab
- Great addition for your resume and college application
- Scholarship opportunities for college (\$5,000 - \$20,000 in scholarships over 1-4 years)

ELIGIBILITY:

- Interest in chemistry/science
- Qualify as low-income based on the program criteria (refer to our website for more information)
- Successfully completed at least one course of high school chemistry

APPLICATION OPENS:
 Early February
 Website: For more info on program dates, eligibility criteria, and to apply visit www.acs.org/projectseed



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TWENTY-SEVENTH ANNUAL
GREEN CHEMISTRY & ENGINEERING CONFERENCE
 June 13-15, 2023 | Long Beach, CA & Online



The ACS GCI Pharmaceutical Roundtable Travel Awards for Students and Postdocs

The ACS GCI Pharmaceutical Roundtable invites graduate students and postdoctoral scholars to present their research at the 27th Annual Green Chemistry & Engineering Conference (GC&E) session, "Sustainability in Organic Chemistry."

From abstracts submitted to this session, eight students will be selected to:

- Give a **20-minute** oral presentation
- Receive up to **\$1200 each** in travel reimbursement
- Be invited to a pre-conference, full-day student workshop
- Be invited to the exclusive ACS GCI Industrial Roundtable Poster Reception

Gain experience presenting your work, network with industry professionals and learn new approaches and innovations in the field. Submit your abstract now to be considered!

Submit your abstract by Feb. 13, 2023!

GCANDE.ORG/PROGRAM

SUSTAINABILITY IN ORGANIC CHEMISTRY

The development of new synthetic methodologies and strategies has been the cornerstone upon which sustainable industrial processes are built. The pure research advances arising from academia fuel the world's industrial innovation, while also training the scientific leaders of tomorrow. This special session highlights the research of graduate students and postdoctoral scholars across the broader, global organic chemistry community which has the potential to impact sustainable industrial chemistry.

American Chemical Society

FROM OUR PARTNERS**JOINT NOBCChE & NORTHEASTERN ACS MEETING**


Joint NE NOBCChE-NESACS Meeting
Henry Hill Lecture and Award Recognition
 Thursday – February 9, 2023
 George Robert White Building, Rm 300
 Massachusetts College of Pharmacy and Health Sciences
 179 Longwood Ave, Boston, MA 02115




Featuring: **Professor Malika Jeffries-El**, Professor of Chemistry and Associate Dean of the Graduate School in Arts and Sciences at Boston University. For more information: <https://sites.bu.edu/el/>

Title: From molecules to materials: Design and synthesis of organic semiconductors for advanced applications

Synopsis: The dramatic increase in the number of consumer electronics in use has produced a large amount of interest in the development of organic semiconductors, as many of the inorganic materials used in electronic devices are in limited supply. These materials possess many exceptional electronic, optical, and thermal properties, and thus are well suited for applications, such as transistors, solar cells, and light emitting diodes. Unfortunately, several issues must be addressed before real-life products can be developed. Our group designs and synthesizes new organic semiconductors based on low cost and/or easily prepared starting materials. Our group developed several new materials, including wide band gap materials for use light-emitting diodes and narrow band gap materials for use in photovoltaic cells. Our recent work will be presented.



Honoring: **Dr. Patrick Gordon**, 2023 Henry A Hill Award for Conspicuous Service to the Northeastern Section.

Dr. Gordon is starting his second term in the NESACS chair succession in 2023 as chair-elect and program chair and in 2024 as chair; he also served in this role in 2010 and 2011. He has served the Section in many roles including councilor or alternate councilor (1994-2023); Board of Publications member (1999-2008) and chair (2000); chair of the NERM Symposium on Cannabinoids (1989), Centennial Committee Co-Chair (1998) and Auditor (2016-2020). He also contributed to the development of Section's Code of Conduct. He is a member of the faculty at Massachusetts College of Pharmacy and Health Sciences.

Join the Northeastern ACS and the National Organization of Black Chemists and Chemical Engineers for the Henry Hill Lecture and Award Recognition event.

Prof. Malika Jeffries-El will present the Henry Hill Lecture, entitled:

From molecules to materials: Design and synthesis of organic semiconductors for advanced applications

Dr. Patrick Gordon will receive the 2023 Henry A. Hill Award for Conspicuous Service to the Northeastern Section of the American Chemical Society at this event.

Date: Thursday, February 9, 2023

Time: 7:30 PM (EST)

[Registration link](#)

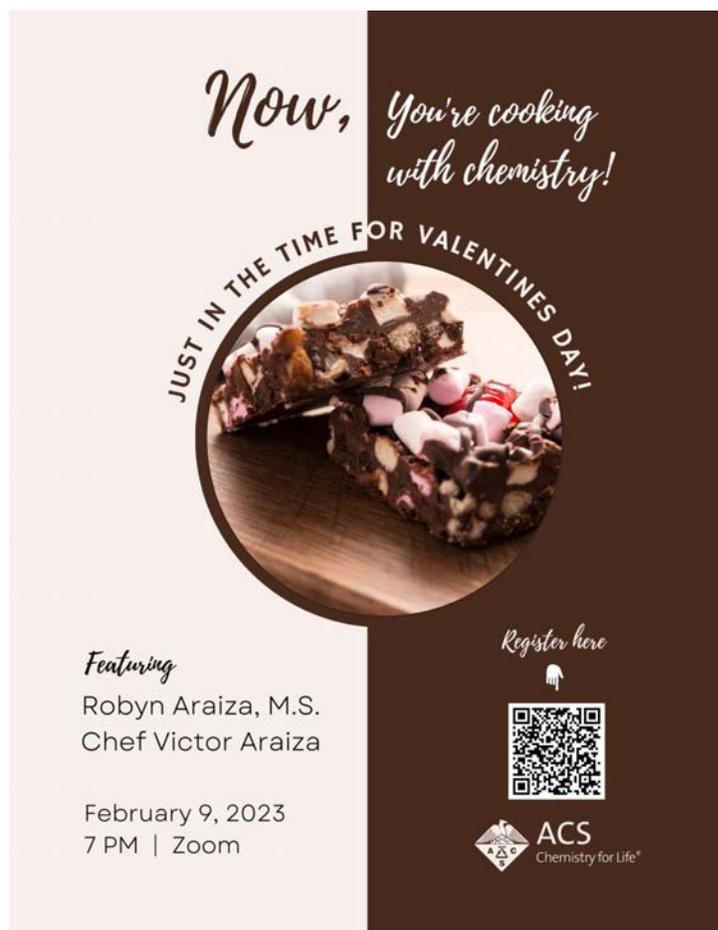
SAN DIEGO ACS

Join the San Diego ACS and learn to make Rocky Road Candy – just in time for Valentines Day! Explore the chemistry behind its marshmallow base which is enshrined in chocolate. This Zoom presentation is an interactive Cooking and Chemistry event where you will be encouraged to follow along with Chef Victor Araiza as he makes this delectable confection and Professor Robyn Araiza explains its chemistry. Don't forget to pick up the ingredients and a candy thermometer!

Date: Thursday, February 9, 2023

Time: 7:00 PM (PST)

[Registration link](#)



Now, You're cooking with chemistry!

JUST IN THE TIME FOR VALENTINES DAY!

Featuring
 Robyn Araiza, M.S.
 Chef Victor Araiza

February 9, 2023
 7 PM | Zoom

Register here



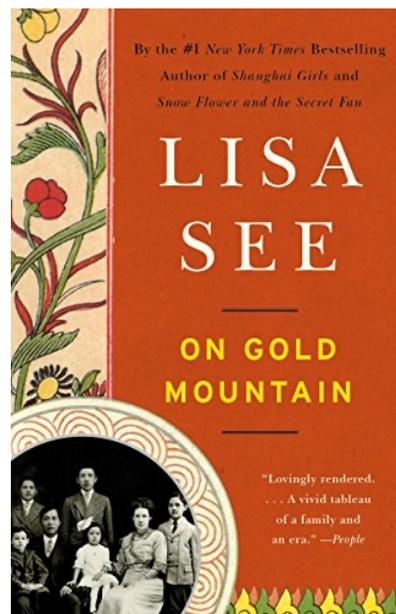

FROM OUR PARTNERS**PUGET SOUND ACS**

All are invited to participate in a Diversity, Equity, Inclusion and Respect book discussion led by Despina Strong of the Puget Sound ACS on March 14, 2023, at 7 pm (PDT). The book selected, *On Gold Mountain*, describes 100 years of the author's family's history as they moved from China to the United States. This memoir focuses on the author's great grandfather, one of the few who realized the dream of coming to the US and finding 'Gold Mountain'

Date: March 14, 2023

Time: 7:00 PM (PST)
10:00 PM (EST)

[Zoom link](#)



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In-Person & Virtual

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Abstracts due April 4th

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Discover the latest advances in analytical technology and equipment.

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CALL FOR PAPERS 2023
Oral & poster abstract submissions opens
March 1, 2023

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION

in f eas.org

**Abstract submission opens
March 1st**

JOB BOARD

Starting your career or looking for the next challenge? Review these postings as well as others on the New York ACS [Job Board](#). Email your job postings to jobs@NewYorkACS.org for inclusion.

Postdoctoral Research Associate Positions at CUNY City College of New York

[More info](#)

Project Coordinator Position at CUNY City College of New York

[More info](#)

Assistant Professor, Chemical Biology and Computational Chemistry – Albert Einstein College of Medicine

[Apply here](#)

Associate Research Scientist – The Metropolitan Museum of Art

[Apply here](#)

Chemist – Odin Pharmaceuticals

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Chemist 3 - KLA

[Apply here](#)

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Scientist, Analytical Chemistry – Regeneron

[Apply here](#)

UPCOMING ACS WEBINARS

[Catalyzing Change: Using Your Chemistry Expertise to Advise Policymakers](#)

February 2, 2023

[Breaking Barriers: Women in Green and Sustainable Chemistry](#)

February 8, 2023

[10 More Tips for Publishing in ACS Journals](#)

February 9, 2023

[No More Hidden Figures: Being Seen, Heard, and Influencing Chemistry at Black Women](#)

February 15, 2023

[Crossroads of Chemistry: Decisions, Opportunities and Finding Your Path](#)

February 16, 2023

All webinars presented live at 2:00PM

NJACS CHROMATOGRAPHY TOPICAL GROUP IS GETTING READY FOR A GREAT 2023

The Executive Board of the New Jersey Chromatography Group, North Jersey's Chromatography Topical Group, met in January to start finalizing our exciting plans for 2023. Events are planned for March (Cannabis analysis), May (Protein assay / peptide quantitation / analysis), and our annual symposium in September. A joint meeting with another group is planned for November.

We are seeking potential speakers for our May event focusing on protein assay / peptide quantitation / analysis – [click here](#) to send our Chair a note!

Check out <https://www.njcg.org/> for news on past events and updates on new events!