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See pages 14 & 24

ACS Local Section North Jersey
ACS Local Section New York

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THE Indicator

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THIS MONTH IN CHEMICAL HISTORY

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

As I browse my extensive personal library, I keep encountering books I have overlooked or forgotten. One of these is a volume on "The Atomic Theory" by Adolph Wurtz, at that time Professor of the Faculty of Sciences at the University of Paris. Originally in French my copy of the third edition, translated by E.Cleminshaw, a master at Sherborne School, was published in 1881 as volume XXX of the International Science Series. I note that my copy was once in the collection of the Bradford Library and Literary Society; and that I acquired it in September 1978 at the price of two pounds sterling.

Eilhard Mitscherlisch

In looking over the titles and contents of the first six chapters of Book 1 of this volume on atoms it strikes me that our teaching of this topic in general chemistry hasn't changed in essence in the past 140 years! Let me illustrate my meaning . Chapter 1 introduces the idea of constancy of composition and Dalton's atomic theory. Chapter 2 brings up Gay-Lussac's Law and Avogadro's hypothesis. These are followed by Berzelius' interpretation and corpuscular theory. Chapter 3 mentions Prout's hypothesis and goes on to the Law of Dulong and Petit, and Mitscherlisch's work on isomorphism. Chapter 4 discusses equivalent weights in detail, including the inconsistencies inherent in the equivalent weight system. Chapter 5, titled "Present System of Atomic Weights" describes the ideas of Gerhardt and Laurent and the reforms introduced by Cannizzaro, Chapter 6 ties all these ideas together: "The new system of atomic weights respects and renders evident the analogies which exist between bodies." Doesn't this look very like an outline of how we would teach the topics of atoms and atomic weights in a beginning chemistry course today?

The second half of the book goes on to other topics that we might not include in so much detail in our courses today, but they are of considerable historical interest. The final chapter of Book 1, Chapter 7, is devoted to Hermann Kopp's work on atomic and molecular volumes. Wurtz then devotes a substantial section to the relatively new idea of the periodicity of properties of the elements as described by Mendeleyev and Meyer.

Book 2 of the volume is titled "Atomicity", a word that has been replaced in modern chemical terminology by "Valency". Wurtz uses both terms and concedes that Frankland was the chemist who pointed out the constancy of valency in metallic compounds like chlorides and oxides. Much of Book 2 is used by Wurtz to develop structural theory, primarily of organic compounds. This work is a tour de force of interpreting and explaining organic formulas.

"The Atomic Theory" by Wurtz is a book that looks both back and forward from its vantage point at the end of the !9th. century. In its look back it covers familiar ground in providing a history of the development of atomic theory that would be a good model for a 21st, century chemistry course. In its look forward it reflects the struggles of late 19th. and early 20th. Century chemists to understand the complexities of molecular structure.

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ADVOCATE FOR CHEMISTRY

ACS Chemistry Advocacy Workshop. The ACS Chemistry Advocacy Program is designed to help ACS members passionate about science and chemistry advocacy maximize Society resources through in-person workshops or this **FREE on-demand course**. This workshop is online and includes four modules covering skills, resources, logistics, and communication for the purposes of advocating for chemistry on the federal level. Participants will learn to successfully plan and execute advocacy activities, as well as have an opportunity to network and build a community with others passionate about science advocacy and ACS. This program aligns with ACS' ongoing engagement with policymakers on Capitol Hill in support of science, engineering, innovation, and chemical stewardship.

Enroll here

ACS VOLUNTEER AND PARTICIPANT POLICIES

The American Chemical Society's mission and vision is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and all its people, as well as to improve all people's lives through the transforming power of chemistry. ACS is committed to providing a safe, inclusive, respectful, positive, and welcoming environment for all participants at every event, whether in person or online. The Volunteer and Participant Code of Conduct Policy and the ACS Youth Protection Policy have been developed to ensure a safe and enjoyable environment for all its individuals and its community.

These are mandatory policies and all ACS members participating in New York or North Jersey ACS events must comply. All events involving children (under the age of 18) must include the Code of Conduct Policy link in event registration forms, emails to participants, or event check-in sheets, ensuring all registrants review and agree to it. (Download the QR code below). For events involving youth, the Youth Protection Policy and Background Check links need to be included in emails, and registration forms. (Download the QR code below). The required background check by Sterling Volunteers **must be renewed annually** and only takes a few hours to complete. Adult volunteers must show their Sterling badge at the event, which is displayed on their Sterling Volunteers profile. **Event organizers are responsible for distributing this policy to ensure compliance.**

VOLUNTEER AND PARTICIPANT CODE OF CONDUCT POLICY

Effective May 1, 2024, the Volunteer and Participant Code of Conduct Policy outlines ACS' expectations for all ACS members and participants at in-person and virtual events and activities, including but not limited to seminars, symposia, trainings and courses, mixers, meetings, programs, and gatherings that are organized, hosted, planned, or managed in whole or in part by ACS or its units. Participants, including, but not limited to, those engaging with ACS as members, officers, affiliates, associates, volunteers, attendees, exhibitors, partners, speakers, and service providers are expected to communicate and abide by this policy at all times.

Download QR code for flyers

ACS YOUTH PROTECTION POLICY

Effective September 1, 2024, the ACS Youth Protection Policy reflects its values and expectations of ethical behavior and protects the safety of youth. All adult volunteers at ACS hosted events, programs, and activities whether held in person and online must comply with the Youth Protection Policy if any participant or attendee is under the age of 18. Compliance is required for all events after October 1, 2024.

To comply, all adult volunteers must complete a background check. ACS will cover the cost. Request a background check here

Download QR code for flyers

PROFESSOR MERCOURI KANATZIDIS SELECTED AS THE 2026 WILLIAM H. NICHOLS MEDALIST FOR HIS GROUNDBREAKING WORK IN HALIDE PEROVSKITE MATERIALS

The New York ACS proudly announces that Professor Mercouri Kanatzidis of Northwestern University has been selected to the **William H. Nichols Medalist for 2026** *for transformative work in halide-perovskite solar cells*. Professor Kanatzidis is the Charles E. and Emma H. Morrison Professor of Chemistry and professor of materials science and engineering at Northwestern University. Born in 1957, he earned his Ph.D. in inorganic chemistry from the University of Iowa in 1984, following a Bachelor's degree in applied chemistry from Aristotle University in Thessaloniki, Greece. He conducted postdoctoral research at the University of Michigan and Northwestern University from 1985 to 1987.

From 1987 to 2006, Dr. Kanatzidis held professorships at Michigan State University before joining Northwestern University in 2006 as a professor and senior scientist at Argonne National Laboratory.

Renowned for his groundbreaking work in halide perovskite materials, Dr. Kanatzidis pioneered the development of all-solid-state solar cells, significantly advancing photovoltaics. His research on coherent nanostructuring has revolutionized the understanding of energy conversion in materials, particularly in thermoelectric materials that convert heat into electricity.

Dr. Kanatzidis has received numerous prestigious awards and honors throughout his career, including the National Academy of Sciences in 2024, the Royal Society of Chemistry Centenary Prize and election to the American Academy of Arts and Sciences in 2023, the Global Energy Prize in 2022, and the Clarivate Highly Cited Researcher designation since 2015 in three disciplines: chemistry, physics, and materials science. Additionally, he was honored with the DOE Ten at Ten Scientific Ideas Award in 2019 for his groundbreaking work on all-solid-state solar cells and received the American Institute of Chemistry Chemical Pioneer Award in 2018. He is the winner of the 2025 Albert Einstein World Award of Science.

Dr. Kanatzidis has mentored over 200 postgraduate and postdoctoral students, shaping the future of renewable energy science. In addition to his scientific contributions, he is dedicated to education and service, inspiring young scientists to excel in research.

Further details of the Nichols Symposium for 2026 honoring Prof. Kanatidis, entitled:

Frontiers in Materials Chemistry and Energy Innovation

will be featured in upcoming issue of The Indicator and on the New York ACS website.

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

NORTH JERSEY SECTION MEETINGS

2025 NORTH JERSEY ACS EXECUTIVE COMMITTEE MEETINGS

2025 North Jersey ACS Chair Robert Menger and the Executive Council welcome you to our monthly NJACS meetings. The meetings are normally held on the second **Wednesday from 6:30 pm to 8:30 pm.** All members are welcome to attend and become more involved in section activities. The dates for 2025 are, as follows:

Wednesday, October 15, 2025 (hybrid) **Wednesday, November 12, 2025** (virtual)
2026 Planning Meeting in December, TBD

For links to the virtual meetings and RSVP for in-person attendance at hybrid meetings, please see our Section Calendar.

2026 NORTH JERSEY SECTION ELECTIONS – VOTE NOW FOR YOUR CHAIR-ELECT AND COUNCILORS

It's that time of year again!

- First, our NJACS elections have started (ballot from Vote Now, slate below; check your Inbox!) – please vote by October 15th!!!
- We also have the ACS National elections, which are open until October 10th

Note the dates for the elections are similar, but the National voting ends after our North Jersey section voting!

The Executive Council has several open positions for dedicated volunteers to work to make our Section better in 2026. You can vote by email or by phone using the info on your ballot. Biographies of the candidates are available on the voting website accessible from your ballot.

The North Jersey Section ACS 2026 election is open NOW and will end on **October 15, 2025**. Ballots were sent out by email from ACS-NJ Elections via **Vote-Now.com**. ***Please check your Spam folder if you cannot find your ballot.***

All current North Jersey ACS members should have received ballots on or about September 12th. As a reminder, here is our candidate slate for the 2026 offices of Chair-elect and open Councilor/Alternate Councilor positions available.

Vote for one
Chair-Elect
Joseph Badillo

Vote for three
Councilor/Alternate Councilor*
Mohammed R. Elshaer
Elizabeth (Bettyann) Howson
Michael B. Peddicord
Miriam Gulotta
Mary Chioma Okorie
Siqi Sun

(*The three Councilor/Alternate Councilor candidates receiving the highest votes will be Councilors for the 3-year term from 2026 – 2028. The remaining three candidates will be Alternate Councilors for the same term of office.)

NORTH JERSEY ACS NATIONAL CHEMISTRY WEEK ILLUSTRATED POEM CONTEST

The North Jersey ACS is excited to offer K-12 students to participate in this year's National Chemistry Week Illustrated Poem Contest. Students have opportunity to express themselves creatively around the theme of 'The Hidden Life of Spices'.

Download entry form here

ACS Chemistry for Life®

NATIONAL CHEMISTRY WEEK

2025 NCW Illustrated Poem Contest
The Hidden Life of Spices

The **North Jersey Local Section** of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in kindergarten through 12th grade. ***EACH SCHOOL MAY SEND NJACS ITS TOP 3 WINNERS ONLY IN EACH GRADE CATEGORY:***

K-2 3-5 6-8 9-12

Contest Deadline: Monday, October 27, 2025

Prizes: *Grade Category Winners:* ***Amazon Gift Cards - 1st Place $50, 2nd Place $25. 3rd Place $10*** *(Category Winner Teachers will also receive a corresponding monetary prize.)*

Contact: *Bettyann Howson (bhowson@njacs.org)*

Winners of the North Jersey Local Section's Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

Write and illustrate a poem using the NCW theme, **"The Hidden Life of Spices."** Your poem must be **no more** than 40 words and in the following styles to be considered:

HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE

Possible topics related to the theme include:

- Turmeric
- Molecules
- Capsaicin
- Cinnamon
- Aroma
- Fragrance
- Gingerol
- Eugenol
- Spices
- Chili

Entries will be judged based upon:

- Artistic Merit - use of color, quality of drawing, design, and layout
- Poem Message - fun, motivational, inspiring about yearly theme
- Originality Creativity - unique, clever, and/or creative design
- Neatness - free of spelling and grammatical errors

Do not put your name on your illustrated poem.

- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the NCW theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. ; use of AI is strictly prohibited Poems may be submitted by hand on an unlined sheet of paper not larger than 11" by 14" or scanned and sent via email. Illustrations may be created using crayons, watercolors, other types of paint, colored pencils, or markers. The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the unlined paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted; all entries must include an entry form. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- Acceptance of prizes constitutes consent to use winners' first name, and entry for editorial, advertising, and publicity purposes.
- Do **not** place participant names on the front of your poem

NORTH JERSEY ACS CHROMATOGRAPHY GROUP ANNUAL SYMPOSIUM

The North Jersey ACS Chromatography Group invites all to their annual symposium, entitled:

Recent Advances in Chromatography for the Development of Novel Modalities

This symposium will feature distinguished speakers discussing their work on the leading edge of separation science. This event is FREE and includes lunch, so please RSVP.

Date: **Friday, October 3, 2025**
Time: 10:00 AM to 3:00 PM EST
Location: DoubleTree
200 Atrium Drive
Somerset, NJ 08878

Register here
Download flyer here

NORTH JERSEY ACS NMR TOPICAL GROUP

The North Jersey ACS NMR Topical Group has some exciting news for the NMR community! We are delighted to announce the lineup of speakers for this year's NJACS NMR annual symposium being held at Princeton University on **Friday, October 17, 2025 from 8:45AM to 8:00PM**. Join us for a diverse range of cutting-edge NMR presentations and an excellent opportunity to connect and network with fellow NMR scientists. Don't miss out on this inspiring event!!

Register here

NORTH JERSEY ACS NMR TOPICAL GROUP (continued)

North Jersey Section
American Chemical Society

ACS Chemistry for Life®

Program

Morning Session (9:20 – 10:30 PM EDT)

8:45 - 9:20: Breakfast/check in

9:20 - 9:30: Rongfeng Zheng, 2025 Chair NJACS NMR Topical Group
Opening Remarks

9:30 - 10:15: Tatyana Polenova, University of Delaware
MAS NMR, with and without DNP for integrative and cellular structural biology

Coffee Break (10:15 – 10:30 EDT)

10:30 - 11:15: Yande Huang, Bristol Myers Squibb
NMR Study of the Inclusion Complexation of Cyclodextrins with Cimlanod, a pH Sensitive Prodrug of HNO
11:15 - 12:00: Theresa A. Ramelot, Rensselaer Polytechnic Institute
Modeling Protein Flexibility: NMR-Guided Detection of Hidden States Revealed by AlphaFold

Lunch (12:00 - 1:00 PM EDT)

1:00 - 2:10: **Keynote Session** Stephan Grzesiek, University of Basel
A high-resolution description of G protein-coupled receptor functional motions by backbone NMR spectroscopy

Coffee Break/Networking (2:10 – 3:00 PM EDT)

3:00 – 3:45: Dominique P. Frueh, Johns Hopkins Medicine
Finding Needles in Haystacks; Overcoming NMR spectroscopic crowding to unravel functional protein dynamics
3:45 – 4:30: Alicia N. Jones, New York University
Investigating the structural dynamics of noncoding RNAs
4:30 – 4:40: QingZhe Ni, 2026 Chair NJACS NMR Topical Group
Closing Remarks

Dinner Reception (6:00 - 8:00 PM EDT)

(Invitation only for speakers and donors/NJACS NMR group committee)
Register on the website here: https://www.njacs.org/event/annual-nmr-symposium/

We acknowledge the generous support of our sponsors:

JEOL Solutions for Innovation · CORTECNET · Bristol Myers Squibb™ · NEW ERA The New Standard in NMR Sampling · BRUKER · Luciano Müller · Mestrelab Research · CIL Cambridge Isotope Laboratories, Inc. isotope.com · MERCK · AIT · QUALYTICS

Deadline for submitting articles and advertisements for the November 2025 issue is October 16, 2025

NORTH JERSEY ACS ORGANIC TOPICAL GROUP: CALL FOR ABSTRACTS

Local graduate students, undergraduate students, and post-docs in chemistry are encouraged to submit an abstract to be considered for a poster session at the New Horizons in Organic Synthesis symposium. This provides an excellent opportunity to share science, get up-to-date with recent developments in organic synthesis and network with the NJ organic chemistry community.

Abstract Guidelines: < 300 words (indicate name, PI, institution, & graduate level)
Topics: Synthesis, Catalysis, Drug Discovery and Development
Abstract Deadline: **October 16th, 2025**
Email Abstract to: Prof. Magnus Bebbington with subject line: NJACS Poster Abstract
Acceptance date: October 23rd, 2025

Register here
Download Flyer here

NORTH JERSEY ACS CHEMEXPO 2025

CHEMEXPO 2025

October 18, 2025 | 12 pm – 4 pm

Liberty Science Center

Join North Jersey ACS for free hands-on demos and activities, centered on the theme of spices.

Contact sandra.keyser@merck.com if you have questions about the event or if you'd like to volunteer!

ACS Chemistry for Life®
American Chemical Society

NATIONAL CHEMISTRY WEEK

NEW YORK SECTION MEETINGS

http://www.newyorkacs.online

2025 BOARD MEETING DATES

The final New York ACS Board of Directors meetings date for 2025, is, as follows:

Monday, November 3, 2025 (hybrid)

The meeting will start at precisely 6:30 PM.

The agenda will include announcement of the Board Meeting dates for 2026, ratification of the 2026 budget, annual conflict of interest compliance, and planning for the Sectionwide Conference and 2026 Nichols Symposium.

FINANCE COMMITTEE MEETING

The New York ACS Finance Committee will meet on **Monday, October 20, 2025 at 6:30PM** via Zoom to discuss the 2026 Budget. Subsection, Topical Group and Committee Chairs are encouraged to submit their budget requests for 2026 by Friday, October 3, 2025 to Bernadette Taylor,

COMMITTEE ON THE HISTORY OF THE NEW YORK LOCAL SECTION

The New York Section has participated in the designation of seven National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks, as detailed on its website. These landmark programs recognize achievements in the chemical sciences and related areas, in order to enhance public appreciation for the contributions of the chemical sciences to modern life. Please consider making a nomination for a historic chemical landmark - be it an achievement, a building or association by contacting Dr. Neil Jespersen, Chair, Committee on the History of the NY Section.

HUDSON-BERGEN CHEMICAL SOCIETY

AIE Materials – Using Phenazine Derivatives

Speaker: Viktorija Miseljic, Ph.D. Candidate
Department of Chemistry
Wesleyan University
Date: **Thursday, October 16, 2025**
Place: Dickinson Hall, Room 4468
Farleigh Dickinson University
Teaneck, NJ 07666
Time: Pizza and refreshments: 5:00 PM
Lecture: 5:30PM
RSVP **Free.** Reservations required by **October 5, 2025**,
Dr. Mihaela Leonida mleonida@fdu.edu, or
Dr. Ish Kumar ikumar@fdu.edu

Abstract: Conjugated organic compounds are widely used in materials science, such as sensors, displays, and bioimaging, due to their tunable light-emitting properties. While fluorescent in dilute solutions, many planar conjugated structures undergo intermolecular interactions like π-π stacking in condensed phases, resulting in aggregation-caused quenching (ACQ), which reduces their fluorescence. In contrast, aggregation-induced emission (AIE) materials exhibit enhanced emission upon aggregation due to restricted intramolecular motions, which prevent nonradiative decay pathways. The condensation of bis-(triphenylethylene) functionalized ortho-phenylene diamine with ortho-quinones gives phenazine-based luminogens in high yields. Fluorescence studies demonstrate that phenazine derivatives display AIE behavior in THF solutions containing ≥60% water. The sizes and structures of aggregates have been investigated further by dynamic light scattering, confocal microscopy, and scanning electron microscopy, each showing that aggregate size decreases with higher water content in THF. The findings provide insights into the trends of aggregation-induced emission in phenazine-based materials and highlight phenazine condensation as a valuable means of accessing AIE materials with desirable luminescent properties.

Speaker Biography: Viktorija Miseljic is a fifth-year PhD candidate at Wesleyan University in Connecticut. She attended Fairleigh Dickinson University, where she was a Division I student-athlete on the women's soccer team and graduated in Spring 2021 with a degree in Science with a chemistry concentration. Following graduation, she joined Dr. Ish Kumar's lab and was later accepted into Wesleyan's PhD program in chemistry. She now works in Dr. Brian Northrop's lab as an organic synthetic chemist, systematically exploring the chemistry of phenazines to construct new organic materials for use in organic electronic devices such as organic field-effect transistors (OFETs), photovoltaics (OPVs), light-emitting diodes (OLEDs), sensors, etc. Outside the lab, she has also had the opportunity to be the assistant coach of the Wesleyan Women's Soccer Team, where she coaches and mentors student-athletes, and was honored as Coaching Staff of the Year in 2024 for the NESCAC conference.

Download flyer here

METROWOMEN CHEMISTS COMMITTEE

Innovation in a Fast-Paced Industry

Speaker: Stacey House
Global Senior Vice President
AGILE BEAUTY & INNOVATION at Coty
Date: **Thursday, November 20, 2025**
Place: Hybrid
Pace University
One Pace Plaza
New York, NY 10027
and via Zoom
Time: 3:25 PM – 4:25 PM

Stacey House is Global Senior Vice President, AGILE BEAUTY & INNOVATION at Coty. AGILE BEAUTY supports innovation with speed, create with purpose, and stay at the forefront of trends—deeply attuned to the evolving needs of beauty consumers around the world. Leveraging experience from her role as Global SVP of Color Consumer Beauty & Prestige R&D at Coty.

Prior to rejoining Coty, she was the Global Head of Innovation for KDC/One's Beauty and Personal Care Division and focused on customer development of elevated, high touch formulas in categories spanning the industry. She started her career on the brand side at Revlon and Coty, supporting all facets within R&D over a combined 14-year period. She then moved into the supplier side of the cosmetic industry as the Director of Applications for Kobo Products, managing labs in the USA, Brazil, and France. During this time, she was involved in ingredient development of sunscreen technologies, surface treatments and dispersions to optimize pigments. Afterwards, she joined MANA Products as the Director of R&D prior to joining KDC/One. Stacey has been involved in hundreds of product launches and helping emerging brands develop product lines.

Stacey holds a patent on Low Viscosity Phenyl Trimethicone Applications. She has written several published industry articles and has given presentations globally for the Society of Cosmetic Chemist (SCC), IFSCC, and In-cosmetics. She served as the Chair of New York Society of Cosmetic Chemist (NYSCC) in 2023, the largest chapter of the SCC.

Stacey graduated from Northeastern University's D'Amore-McKim School of Business with MBAs in International Business, Operations and Supply Chain Management. She received her Bachelor of Science degree at Rutgers University-New Brunswick with a focus on Microbiology in Cosmetics. Stacey is an active member of SCC and Cosmetic Executive Women (CEW).

SAVE THE DATE: 2026 SECTIONWIDE CONFERENCE

The New York ACS Sectionwide Conference will be held on Saturday, January 24, 2206 at Iona University. Please join us as we celebrate our volunteers, plan our events for 2026, and honor our professional educators. Further details will be forthcoming in The Indicator and on the New York ACS website.

LONG ISLAND SUBSECTION

ACS Local Section
New York
Long Island Subsection

Adventures in Photochemistry

Matthew Y. Sfeir
Associate Professor of Chemistry
City University of New York

Thursday, October 16th, 2025, 6:30 PM
St. John's University, DAC Ballroom (4th floor)
and online (Zoom)

Registration required
Click here or
scan the QR code
to register.

Abstract: The optimization of excited state processes in molecular systems is a fundamental science problem critical to the realization of emerging sustainable energy technologies such as artificial photosynthesis, solar cells, and solid-state lighting. The last several decades have seen tremendous progress in this area driven by advances in the design and synthesis of excitonic materials that exhibit strong absorption, efficient light emission, and tunable electrochemical potentials. Still, there are fundamental limits to the strength of light-matter interactions in conventional molecular chromophores that have hindered their adoption in next-generation device technologies, including their absorption and emission rates, as well as dynamical processes, such as the carrier delocalization and diffusion. As such, a grand challenge for light-responsive molecular materials involves the development of strategies to increase the size of achievable cross-sections, expand the size of their electronic wavefunctions, and access novel spin states with long lifetimes.

I will discuss strategies to address these challenges by combining molecular light harvesting systems with dielectric photonic devices. The goal of these studies is to simultaneously optimize these materials' macroscopic light-matter interactions and their carrier dynamics to improve the efficiency of processes for solar energy capture, including heterogenous photocatalysis, spin conversion, and exciton harvesting processes. I will discuss our efforts in the development of resonant photocatalytic metasurfaces, open cavity systems that permit selective excitation on strongly coupled organic exciton polaritons, and nonlinear polariton condensates. Key to these efforts is the development of high-speed ultrafast and nonlinear metrology tools that allow us to rapidly evaluate new materials and device concepts with unprecedented sensitivity.

Presented by the Long Island Subsection of the American Chemical Society

WESTCHESTER CHEMICAL SOCIETY: SAVE THE DATE

Solid-State Modeling in Drug Development: Predicting Risks, Mitigating Threats and Unlocking Opportunities

Speaker: Luca Iuzzolino, Ph.D.
Associate Principal Scientist
Modeling & Informatics
Discovery Chemistry
Merck & Co., Inc.
Rahway, NJ
Date: **Thursday, December 4, 2025**
Place: Online via Zoom
Time: 7:30 PM

Abstract: Several key properties of organic materials — including physicochemical stability, solubility, hygroscopicity, tendency to amorphize, melting point, and external morphology — depend not only on the chemical nature of the molecule but also on how it arranges itself in the solid state. Consequently, comprehensive screening and characterization of crystalline forms, or polymorphs, of the active pharmaceutical ingredient (API) and key synthetic intermediates, together with their solvates and hydrates, are essential components of small-molecule drug development.

When a target molecule cannot form crystal structures with suitable properties (for example, an adequate melting point), alternative solid forms such as salts or cocrystals are explored to achieve an optimal balance of attributes. The solid form selected for manufacturing and formulation must possess the required characteristics and retain them throughout the entire manufacturing, storage, and delivery lifecycle. It must also be thermodynamically stable to minimize the risk of late-appearing, undesired polymorphs — as dramatically illustrated by the ritonavir and rotigotine debacles.

Experimental solid-form screens, however, are costly, time-consuming, and often rely on trial-and-error; fundamentally, they cannot guarantee identification of all relevant solid forms. Solid-state modeling can substantially enhance drug development by helping to right-size experimental effort, assess risks associated with a chosen form, and focus experiments on the most relevant threats and opportunities. In this presentation I discuss solid-state modeling with an emphasis on crystal structure prediction: the workflows, the types of information obtainable, how to interpret the results, and important caveats of computational approaches. I also present examples of the impact of solid-state modeling on real projects and outline future directions for improvement and development.

Download flyer here

WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTISTS AWARD 2026 – CALL FOR NOMINATIONS

The Westchester Chemical Society is now accepting nominations for the "WCS Distinguished Scientist Award 2026". Scientists who live or work in Westchester or the Bronx qualify. Nominees can be from private companies or educational institutions or government. The awardee is expected to attend the Awards Dinner (April/May time-frame) and to present aspects of his or her work. Self-nominations are acceptable. Nominations are carried over for 3 years from previous years. New and possibly updated nominations should be submitted. Please send a cover letter stating why your nominee should receive the award along with the nominee's resume by **December 15, 2025** to Dr. Peter Corfield at pcorfield@fordham.edu. The list of Westchester Distinguished Scientists is given on this webpage.

CALL FOR NOMINATIONS: NEW YORK ACS COLLEGE TEACHING AWARDS

The New York ACS invites all members to nominate worthy colleagues for one of five outstanding college chemistry teaching awards honoring the dedication of college faculty in training the next generation of chemistry professionals. These awards are presented annually to recognize highly effective teaching and inspirational leadership by chemistry faculty within the New York Section.

The deadline to submit nominations is **November 15th.** The details for each of the awards are linked below and on this website:

- Outstanding **Adjunct (Part-Time)** Teaching Award
- Outstanding **Full-Time Lecturer and Instructional Faculty** Teaching Award
- Outstanding Chemistry Faculty Teaching Award Division: **Two-Year College**
- Outstanding Chemistry Faculty Teaching Award Division: **Four-Year Undergraduate College and University**
- Outstanding Chemistry Faculty Teaching Award Division: **Four-Year University with Graduate School**

These awards will be presented to the winners at the ACS New York Sectionwide Conference on January 24, 2026. The winners will be presented a plaque and a one-year membership to the American Chemical Society. Nominations remain on file for 3 years.

MS. XUE QING LIANG EARNS NATIONAL HONORS AS JAMES CONANT BRYANT AWARDEE FOR HIGH SCHOOL TEACHING FOR 2026

The New York ACS is proud to announce that New York High School Teacher Xue Qing Liang will be honored with the national James Conant Bryant Award for High School Teaching by the American Chemical Society at the Spring 2026 ACS Meeting in Atlanta in recognition of Ms. Liang's innovative teaching methods, her promotion of inclusive education, and her commitment to addressing diverse learning needs of her students at New Utrecht High School.. Ms. Liang has been honored with the Nichols Foundation High School Chemistry Awards by the New York ACS (pictured at right) and the ACS Award for Excellence in High School Teaching in the Middle Atlantic Region sponsored by the ACS Division of Chemical Education.

TEACHING EXCELLENCE HONORED WITH REGIONAL AWARDS AT MARM 2025

The New York ACS congratulates two of its members who were honored as chemical educational professionals at this year's Middle Atlantic Regional Meeting. Maria Zeitlin, picture at right with her two sons, received the ACS Division of Chemical Education regional award for High School Teaching. A teacher at Smithtown HS East since 2003 and coordinator of their ThINK Discovery Science Research Program, Maria engages her students through inquiry-based activities. Prof. Rita Upmacis, pictured at left with ACS Director-At-Large Malika Jefferies-EL, was honored with the E. Emmet Reid Award in Chemistry Teaching at Small Colleges in the ACS Middle Atlantic Region. Prof. Upmacis' students praise her for her clear and engaging lectures and dedication to ensuring all students comprehend the material.

2025 FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM

2025 Frances S. Sterrett Environmental Chemistry Symposium

PFAS – Forever Chemicals or Solvable Crisis?

Detection Methods, Harmful Effects, and Cleanup Strategies for Per- & Poly-fluoroalkyl Substances

Saturday, November 8th, 2025; 9:00 am – 3:00 pm

Berliner Hall Room 117, Hofstra University; Hempstead, NY 11549-1000

The Frances S. Sterrett Environmental Chemistry Symposium *is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. The symposium is organized by members of the Long Island Subsection of the American Chemical Society (LIACS) and cosponsored by the New York Section of the American Chemical Society (NYACS); This event is made possible with the support of Hofstra University's Chemistry Department, ACS Senior Chemists Committee and Shimadzu Scientific Instruments. We invite you to join us and gain invaluable insights from field experts as they shed light on the pervasive issue of PAFS contamination; and explore the latest advancements in assessment methods, regulatory policies, and mitigation strategies to tackle this pressing environmental challenge.*

Dr. Graham F. Peaslee
Professor Emeritus
Department of Physics & Astronomy;
University of Notre Dame
The elephant in the room: measuring PFAS and total organic fluorine.*

Dr. Arjun K. Venkatesan
Associate Professor
Department of Civil & Environmental Engineering;
New Jersey Institute of Technology
PFAS in the environment: challenges in understanding their occurrence, fate, and treatment.

Mr. James L. Neri
Senior Vice President, Director of Municipal Engineering
H2M Architects + Engineers
Forever chemicals and the quest for sustainable solutions: understanding PFAS and our Role.

Dr. Bridger J. Ruyle
Assistant Professor
Department of Civil, Urban, and Environmental Engineering; New York University
The contributions of polyfluoroalkyl substances to PFAS contamination and biogeochemistry at major aquatic point sources.

Mr. Alireza Arhami Dolatabad
PhD Student
Department of Civil and Environmental Engineering;
University of Missouri
Breaking the chain: thermal degradation of PFAS and the challenge of volatile PFCs*

Dr. James Tour
T. T. and W. F. Chao Professor
NanoCarbon Center; Rice University
Removal of PFAS from soil and destruction of PFAS while generating valuable materials in the process.*

Dr. Lokesh P. Padhye
Associate Professor, Associate Director of Emerging Contaminant Research
School of Marine and Atmospheric Sciences;
Stony Brook University
Addressing the persistence of per- and polyfluoroalkyl substances (PFAS): current challenges and potential solutions.

Dr. Yuemei Ye
Assistant Professor
Department of Chemistry; Lehman University
PFAS transformation and remediation: from environmental release to innovative cleanup strategies.

Ms. Jiefei Cao
PhD Student
Department of Civil and Environmental Engineering;
University of Missouri
PFAS removal from reverse osmosis and nanofiltration brine by granular activated carbon: Thermodynamic insights into salinity effects.*

Note: this symposium offers both in-person and virtual experiences; Zoom presentations are indicated with a "*".

ACS Local Section New York Long Island Subsection

Registration (free): 2025-Sterrett

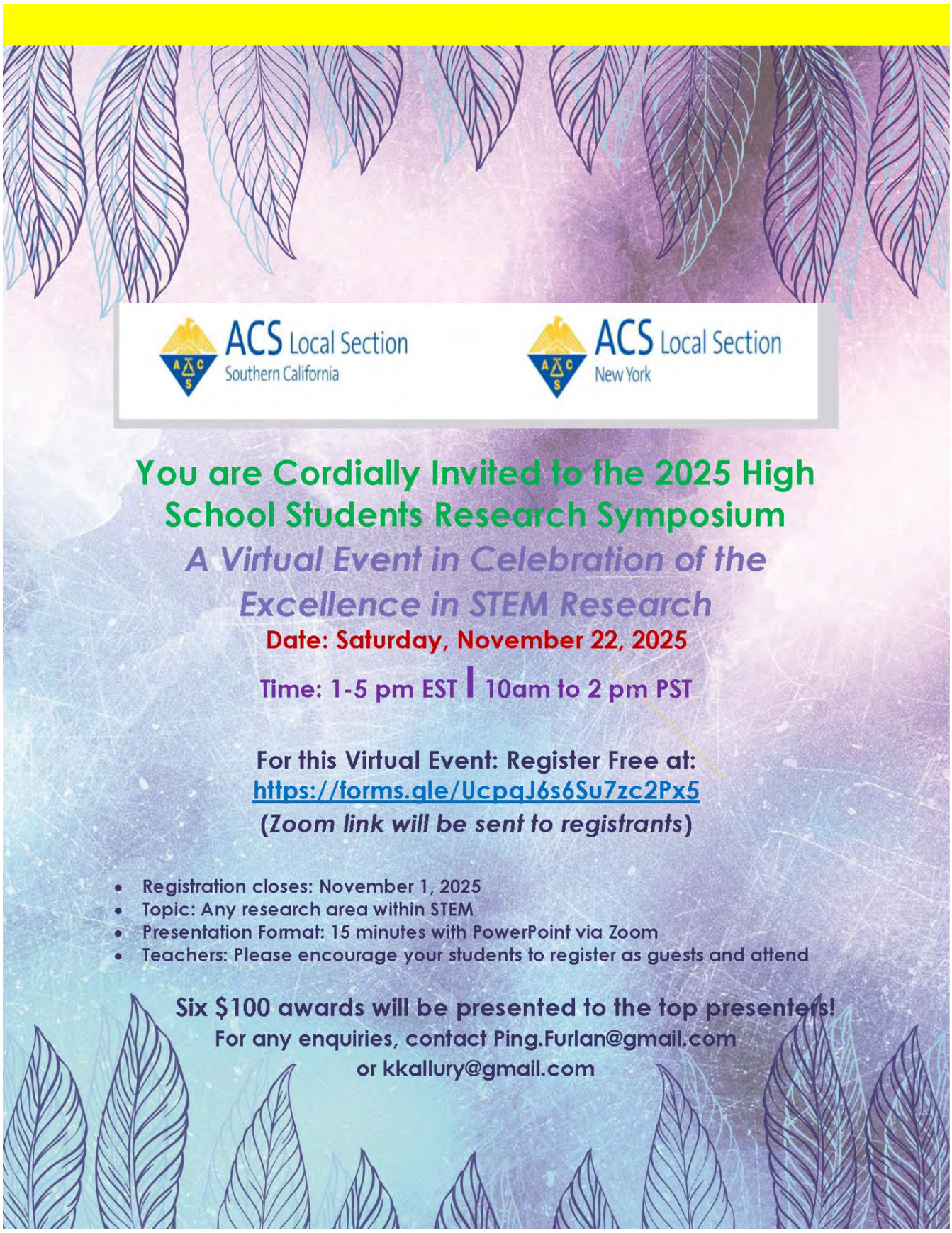
Contact: Dr. Paris Svoronos, Dr. Ronald P. D'Amelia, Dr. Ping Furlan

ACS Committee Senior Chemists

SHIMADZU Excellence in Science

HOFSTRA UNIVERSITY

2025 HIGH SCHOOL STUDENTS RESEARCH SYMPOSIUM



NATIONAL CHEMISTRY WEEK CELEBRATION AT NEW YORK HALL OF SCIENCE

ACS Local Section
New York
National Chemistry Week

Announcing the 2025 National Chemistry Week Celebration

Where: New York Hall of Science
When: Sunday, October 19th, 2025
Time: 10:00 am – 4:00 pm
Theme: The Hidden Life of Spices

Please register in the link below if you would like to volunteer, sponsor/lead a Demo, or just provide a donation.

Volunteer/Demo Registration Link

In order to make a donation or pay for table rental – please use this **NYACS Donation Link**.

Looking forward to a great Celebration in 2025

Please contact Joseph Wiener and Ping Furlan for more information

ACS Chemistry for Life
American Chemical Society
NATIONAL CHEMISTRY WEEK
nysci
PEPSICO

2nd ANNUAL CHEMISTRY OF $^{39}Y^{8}O^{31}GA$ EVENT

ACS Local Section
New York

2nd Annual "Chemistry of $^{39}Y^{8}O^{31}Ga$" event

Date: Sunday, November 23, 2025

Time: 10-3 PM

Place: Pace University, Gym and Student Center East
1 Pace Plaza, New York City

Join us in this fun, healthy, and educational event, where we come together and celebrate our life energy! Yoga is more than twisting and turning – it is the awareness of the breath, concentration, meditation, a look within. The chemistry of $^{39}Y^{8}O^{31}Ga$ techniques to be discussed include: asana (postures), pranayama (breathing), and meditation (dhyana). Presentations will discuss how the yoga practice affects the brain and blood flow. The day's bliss will begin with a beginner asana practice, pranayama, and sound healing by certified yoga instructors. Following the practice and talks, there will be lunch, snacks, and a healthy smoothie bar. Come breathe, flow, and smile with us ☺ The event is free and open to all, but everyone must register (including children).

Bring your own yoga mat or blanket.

For more information contact:
Prof. JaimeLee Iolani Rizzo, jrizzo@pace.edu

To register:
https://forms.gle/2FHRpGy8u9CLzGHy9

MEETING REPORTS

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025

Contributed by Cecilia H. Marzabadi

The North Jersey Section of the ACS (NJACS) was proud to host the 2025 Mid-Atlantic Regional American Chemical Society Meeting (MARM) at Seton Hall University May 28-31, 2025. The theme of this meeting was Celebrating 100 Years of the NJACS. A range of technical, professional, and social programming was available for attendees.

Technical

Dr. Morten Meldal, 2022 Nobel Laureate in Chemistry (University of Copenhagen), gave the Plenary address on "Chemistry is everything; presented through the journey of molecular click adventures." His talk was followed by a reception to celebrate the 100th anniversary of the section.

Top Left: Keynote speaker Prof. Morten Meldal receiving gift from NJACS Chair Robert Menger, Ph.D.; **Top Right:** ACS Fellow Marilyn Gorman with Gabrielle Veloso (student, William Patterson); **Bottom Left:** L to R, Siqi Sun, Ph.D., Exposition Co-chair; ACS President-Elect, Dr. Rigoberto Hernandez; Mary Okorie, Ph.D., NJACS YCC Co-chair; **Bottom Right:** A scene from the 100-year anniversary reception.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Left: Dr. Meldal talking with students at the 100th year anniversary party; **Right:** 100th year anniversary cake.

A Keynote lecture was given by Dr. Phaedria St. Hilaire (ProWoc, P & M Consulting) in a symposium on "Challenges and Opportunities for Women of Color in Chemistry." Her talk focused upon "Navigating Careers in STEM from an Intersectional Diversity Perspective." Other symposium speakers were Annette Ortiz Miranda, Ph.D., Yeimy Garcia, Malika Jeffreis-EL, Ph.D. and Daniebelle Hasse, Ph.D. Dr. Rebecca Ruck (Merck & Co.) was the Keynote in a symposium on "Empowering Women in Organic Chemistry (EWOC). She spoke about "Enabling technologies to drive new modalities in the Merck pipeline." Other speakers in the EWOC symposium were Donna Huryn, Ph.D., Malika Jeffries-EL, Ph.D., Tianning Diao, Ph.D. and Makeda Tekle-Smith, Ph.D.

Left: Challenges and Opportunities for Women of Color in Chemistry symposium speakers.
Right: Keynote speaker, Rebecca Ruck, Ph.D. in EWOC symposium.

Invited talks were given by Dr. David Laviska (ACS - Portfolio Manager for Green Chemistry and Sustainability in Education) and by Walker Smith (ROY G BIV).

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

In addition to the technical sessions, workshops on professional development, safety workshops (students and professionals) and green chemistry were offered at the meeting. Talks on "The Power of Mentoring," "Careers in Cosmetic Chemistry" and a panel discussion on "Bridging the Gap between Academic and Industry: Career Journeys and Internship opportunities" were presented. A lecture on "The Chemistry of Wine and Cheese" was followed by a wine and cheese reception.

Top Left: Safety workshop; **Top Right:** Green Chemistry workshop with Dr. David Laviska. **Bottom Left:** Dr. Jeanne Berk speaking at the Chemistry of Wine and Cheese Lecture; **Bottom Right:** Rachel Magee (L'Oreal) speaks about "Careers in Cosmetic Chemistry."

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Awards

Nine 50- and 60-year NJACS members received membership recognition at the wine and cheese reception.

Top Left: L to R, Martha Holloman, Ph.D. (Delaware ACS), Bettyann Howson (Councilor and Secretary, NJACS), Brian Gibney, Ph.D. (NYACS); **Top Right:** Scene from the wine and cheese reception; **Bottom Left:** 50- and 60-year NJACS members with District I Board of Director, Bonnie Lawlor (Far L in photo) and ACS President-Elect Rigoberto Hernandez, Ph.D.; **Bottom Right:** (L to R) Diane Krone, Councilor NJACS; Lynda Box, MARM 2025 Awards Chair.

Other awards were distributed at the Awards dinner the same evening. The Stanley Israel Award for Advancing Diversity in the Chemical Sciences was presented to Dr. Jakyra Simpson (Ky the Chemist), the founder of STEAM Sneakerhedz. Jennifer McCulley was the recipient of the E. Ann Nalley Middle Atlantic Region Award for Volunteer Service to the American Chemical Society. Maria Zeitlin (Smithtown High School) was presented with the ACS Division of Chemical Education (CHED) Region Award for Excellence in High School Teaching. Dr. Rita Upmacis (Pace University) received the E. Emmet Reid Award in Chemistry Teaching at Small Colleges in the ACS Middle Atlantic Region. Finally, the William “Bill” Suits Award for Outstanding Student Volunteer Service to ACS, was given to Andrew S. Thampoe.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Left: Stanley Israel Awardee, Dr. Jakyra Simpson with (L) Dr. Malika Jeffries-EL (ACS, Director at Large); **Right:** Maria Zeitlin, (Far R, front) (CHED) Region Awardee for Excellence in High School Teaching with colleagues, Back row (L to R), Christina Boudrow, Ph.D.; Rigoberto Hernandez, Ph.D., Chair-Elect ACS; Bettyann Howson (NJACS)

Local Section awards were also distributed on the last evening of the meeting. Dr. Mirlinda Biba was recognized for her distinction as an ACS Fellow in 2025. Joseph Badillo, Ph.D. (Site, Co-Chair for MARM) was given the Outreach Volunteer of the Year Award. High school students that participated in the 2025 Chemistry. A Lifetime Achievement Award from the NJACS was presented to Dr. Wei Ding of BMS. High school students participating in the 2025 Chemistry Olympiad were acknowledged, as were members of the MARM 2025 organizing committee.

Left: Dr. Mirlinda Biba, ACS Fellow; **Right:** (L to R) Dr. Sandra Keyser (NJACS, Past-Chair) and Dr. Joseph Badillo.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Members of the MARM Board attended the dinner, as were members of the Royal Society of Chemistry (RSC). ACS Executive Board members Rigoberto Hernandez, Bonnie Lawlor and Malika Jeffries-EL were also present.

Left: NJACS Chemistry Olympiad winners with Bettyann Howson and ACS President-Elect Hernandez; **Right:** NJACS Chair Robert Menger, Ph.D. presents a Lifetime Achievement Award to Dr. Wei Ding of BMS.

On Friday, a luncheon hosted by the local Women Chemists Committee (WCC) was held. Siqi Sun, Ph.D. (NJACS WCC Chair) introduced Dr. Lorena Tribe, the Chairperson of WCC National. Dr. Tribe delivered the luncheon address. The YCC also held several events at the meeting. A well-attended ice cream social was held the first day of the meeting. A movie and popcorn gathering were held on the second evening of the meeting. On day three, green tea and cookies were served up at a reception where green chemistry was discussed.

Left: WCC Chair Lorena Tribe speaking at MARM WCC luncheon. **Right:** Students enjoying the YCC ice cream social.

ACS Governance Events

Open governance meetings for the section and for ACS National were held at MARM 2025 on the first and second day of the meeting, respectively. The MARM Board also met on Saturday, the last day of the meeting.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Poster Sessions and Exposition

Poster sessions were held the first three days of the meeting. An undergraduate session was held on the first day of the meeting. The students' posters were rated by judges and the top three presentations were awarded gift cards. The exposition was open days two and three of the meeting. To increase attendance at the expo, the poster sessions were located in the same room. Breakfast was held immediately outside the expo room and an afternoon snack was served to expo attendees. Seventeen vendors and fourteen universities/ ACS groups participated in the exposition. One of the vendors raffled off books near the end of the second expo day.

Left: First place undergraduate poster winner, Ciara Taggart (Seton Hall) with Dr. Joseph Badillo; **Right:** Scene from the exposition.

K-12 Activities (contributed by Bettyann Howson)

The last day of the meeting was filled with activities for high school students. The keynote speaker, Walker Smith, also known as ROY G BIV, enlightened the audience with his presentation titled: "What would atoms and molecules sound like, if we could listen to them?" His research of converting vibrations, rotations and energy levels into sounds and music creatively brought together art and science, through the demonstration of the "orchestra of the periodic table." Walker is presently completing his Ph.D. in computer-based music theory and acoustics at Stanford University. It was an honor to have him travel from the West Coast and share his talents with all the MARM students.

Following Walker Smith's presentation, former Project SEED student Joy Okaro spoke about her experiences, detailing her research and professional journey so far. Joy performed SEED research in the laboratory of Professor Joseph Badillo at Seton Hall and is currently a sophomore at Princeton University. A Chemagination poster session/competition closed out the last day of a very successful MARM. Following a student networking lunch, sixteen teams presented posters depicting their research. Seven members volunteered their time to judge the posters, which encompassed four categories: Environment, Alternative Energy, Health and Medicine, and New Materials. First place was awarded in each category. As the judges deliberated, the students were treated to an informative and entertaining program by ROY G BIV, where they enjoyed hearing the atomic structure of their "favorite" element converted to music. Chemagination prizes were announced in a lively ceremony that capped off an eventful day for all participating high school students, teachers, and parents.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Left Top: (L to R) Dr. Miriam Gulotta (NJACS), Emily Tennenbaum (Project SEED), Dr. Joseph Badillo (SEED Mentor), (SEED student speaker), Marilyn Gorman (Project SEED); **Right Top:** Walker Smith (a.k.a. ROY G BIV) with Ethan Tang, Livingston High School; **Left Bottom:** Chemagination student posters; **Right Bottom:** Chemagination student participants.

Chemagination

INDUSTRY ACADEMIA MARM 2025 SUMMIT

Associated Events

Industry Academia Summit

A forum was held on campus focusing on critical skills needed for employment by graduates. The ACS Office of Higher Education (Michelle Brooks) hosted this event and luncheon that was held on the last day of MARM.

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Planning Team for MARM 2025

Meeting Chair – Cecilia Marzabadi, Ph.D. (NJACS)
Site Co-Chairs – Joseph Badillo, Ph. D. and Gregory Wiedman, Ph.D. (Seton Hall)
Program Chair – Steven Silverman, Ph.D. (Merck)
Treasurer – Mohammed Elshaer (FDU)
Secretary – Lynda Box (NJACS)
Webmaster – Kimberly Choquette, Ph.D. (Drew)
Exposition Committee – Siqi Sun, Ph.D. (Chair), Luciano Mueller, Ph.D., Anne Kelly, Ph.D.
Awards Chair – Lynda Box (NJACS)
K-12 Programming/ Awards – Diane Krone (NJACS), Bettyann Howson (NJACS)
Chemagination – Louise Lawter (Princeton Section)
Session Chair/ Volunteer – Magnus Bebbington, Ph.D. (Montclair State)
Session Chair/ Volunteer – Yufeng Wei, Ph. D. (NJ City U)
Session Chair/ Volunteer – Yosra Badei, Ph.D. (St. Peter's)
Session Chair/Volunteer – Derrick Swinton, Ph.D. (Kean)
Session Chair/Volunteer – Reihaneh Safavioshi, Ph.D. (Seton Hall)
Session Chair/ Volunteer – Nada Khan, Ph.D.

Left: (L to R)(Front) Luciano Mueller, Anne Kelly, Maha Elshaer, Mohammed Elshaer, Robert Menger, Kimberly Choquette, Cecilia Marzabadi, Gregory Wiedman; **Right:** Reihaneh Safavioshi, Diane Krone, Anne Kelly, Cecilia Marzabadi, Joseph Badillo, Mohammed Elshaer, Mary Okorie, Luciano Mueller, Bettyann Howson, Siqi Sun.

Other Acknowledgements

Photography Credits – Dr. Sandra Keyser
Seton Hall University – Jamilah Savage, Jonathan Farina, Ph.D., Marianne Lloyd, Ph.D., Kristey Gonzalez, James Calechman, Karen van Norman
ACS Regional Meetings – Kimberly Savage, Rossana Rizzo, Victoria Xue
MARM Board Members
Student and Other Member Volunteers

THE NORTH JERSEY ACS CELEBRATES 100 YEARS AT MARM 2025 (continued)

Thank-you!!!

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North Jersey Section American Chemical Society
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Seton Hall University

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New York Society of Cosmetic Chemists
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PennState
City University of New York — The Graduate Center
ACS Local Section — Maryland
St. John's University
Penn Master of Chemical Sciences

NORTH JERSEY ACS STRATEGIC PLANNING RETREAT

The NJ ACS strategic planning retreat attendees at Fairleigh Dickinson University (Madison).

The NJ ACS attended a strategic planning retreat at Fairleigh Dickinson University (Madison) on September 13th and 14th. Twelve NJ ACS Executive Committee members were joined by two ACS Facilitators, Martha Lester and Larry Kranich, resulting in an updated strategic vision and mission, as shown below.

NJ ACS Vision: Enriching and empowering our community through the transformative power of science

NJ ACS Misson: Advancing the scientific enterprise for the benefit of our community by providing resources, programs, and outreach

Furthermore, the team aligned on three goals aimed to strengthen the NJ ACS local section and achieve its vision and mission.

•**Increase Membership Engagement:** Increase membership and engagement through enhanced programming and activities
•**Community Outreach:** Strengthen community connection by inspiring curiosity and appreciation for science among the public
•**Leadership Development and Governance:** Redefine our governance and support structures to ensure organizational effectiveness and the sustainability of our section

The members of the strategic planning retreat will be seeking feedback and endorsement of the detailed plan at the upcoming NJ ACS Executive Committee meeting on Wednesday, October 15th.

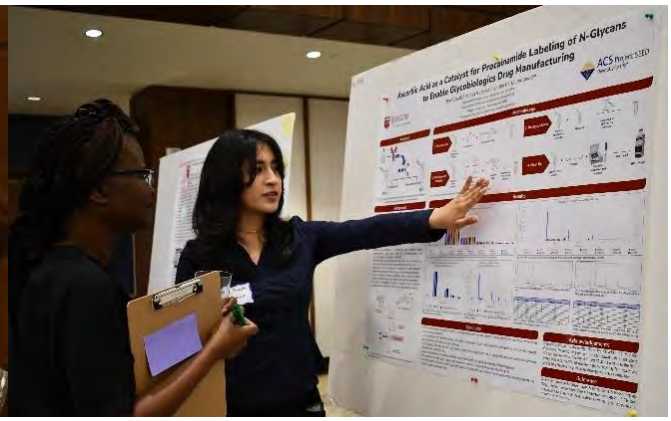
2025 NORTH JERSEY ACS PROJECT SEED PROGRAM AND POSTER SESSIONS

Seventeen students from thirteen high schools were hosted by North Jersey ACS for the 8-week Project SEED program in summer 2025. Dr. Emily Tenenbaum, chemistry teacher at Highland Park High School coordinated the program at the Rutgers University, New Brunswick, site and Bobbi Gorman, retired chemistry teacher, coordinated the Rutgers University, Newark, and Seton Hall University sites. For the 37th year, Seton Hall University hosted the annual poster session, this year on August 14th, under the leadership of Dr. Joseph Badillo, Associate Professor, Department of Chemistry and Biochemistry, shown below.

Dr. Badillo

Project SEED Poster Session

Muzen Mohanedsaeed



Bree Zavala

Students, were given certificates and the Reverand Gerald Buonopane, Ph.D., Department of Chemistry and Biochemistry at Seton Hall University, was recognized for his years of mentoring students in the Project Seed Program. Another feature of the evening was the presentation of NJACS Pro Bono Award to Professor Frieder Jaekle, Ph.D., Department of Chemistry, Rutgers, Newark for his mentorship and promotion of the Project SEED Program.

2025 NORTH JERSEY ACS PROJECT SEED PROGRAM AND POSTER SESSIONS (continued)

Project SEED students Yumna Arif, Juliet Halaseh, Raifah Kader, Cristian Leon Lorenzo, Constantino Matos, Ayo Osayande, Prayagkumar Patel, Aaron Romero, Foysal Sorwar, Siri Tarigopula, Oscar Wong, and Kathleen Zheng

The Reverend Gerald Buonopane, Ph.D.

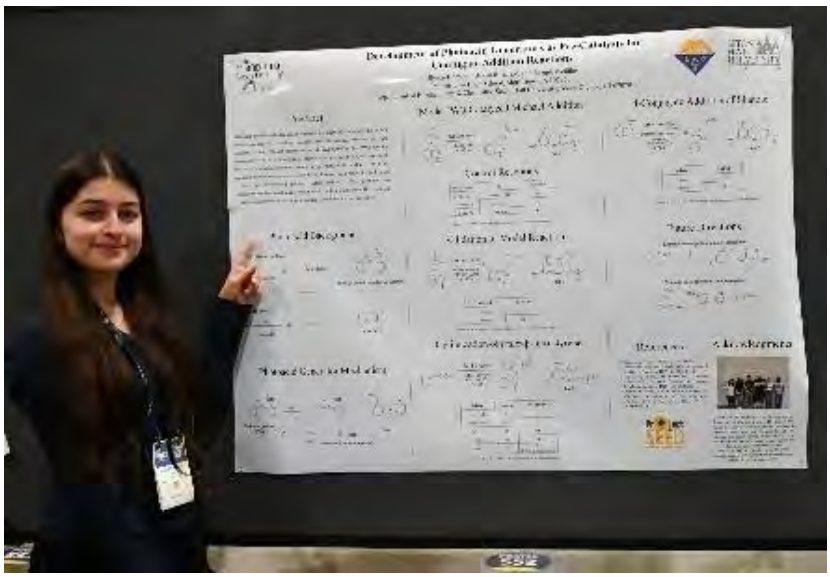
Dr. Tenenbaum, Bobbi Gorman, Dr. Jaekle

This year national Project SEED Committee offered travel grants to students to present their. research at the National Meeting in Washington, D.C., on August 18. Seven students from our program attended.

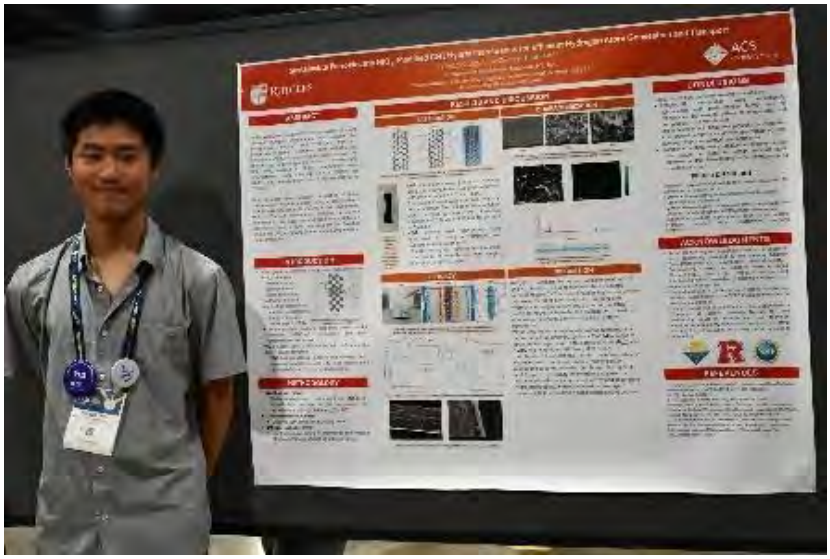
Three are shown at the top of the next page.

We are also grateful to Dr. Cecilia Marzabadi for her long service coordinating many poster sessions in the past.

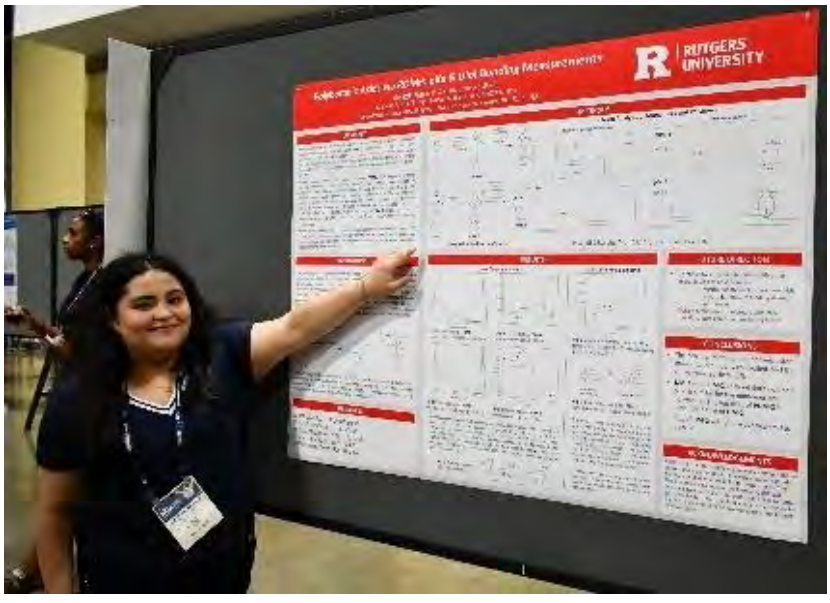
2025 NORTH JERSEY ACS PROJECT SEED PROGRAM AND POSTER SESSIONS (continued)



Allyson Herrera



Vincent Chen



Dayamin Miranda

USMMA ACS STUDENT CHAPTER EXPLORES DISCOVERY AND INNOVATION AT BROOKHAVEN NATIONAL LABORATORY

Members of the USMMA ACS Student Chapter during their visit to Brookhaven National Laboratory on September 14, 2025: Kristal Soo, Amaya Wilson, Samantha Soo, Henry Puzerewski, Evan Kennedy, Dominic Mezza, Aidan Dugan, Miles Price, and Nicholas Granitz

The United States Merchant Marine Academy (USMMA) ACS Student Chapter visited Brookhaven National Laboratory (BNL) on Sunday, September 14, 2025, as part of the Lab's Open House Tour themed *Discovery and Innovation*.

The field trip was organized by the Chapter President Midshipman Amaya Wilson, under the guidance of faculty advisor Dr. Ping Furlan, Professor of Chemistry at USMMA. The Open House featured a wide range of tours and presentations, including Center for Functional Nanomaterials (CFN), Computing and Data Sciences, Radio Telescopes and Quantum Computing, and OpenSpace Show.

Among these, the CFN proved to be the highlight for the Kings Pointers. Students were fascinated to learn about nanocages for gene delivery and graphene's potential role in superconductors. The group left motivated to share these insights—especially about graphene—with their classmates back at Kings Point.

Equally exciting for the students was learning about the LuSEE-Night radio telescope and asteroid tracking in the solar system. Students saw how asteroids are monitored and explored the design process of LuSEE-Night, destined for the far side of the Moon.

USMMA ACS STUDENT CHAPTER EXPLORES DISCOVERY AND INNOVATION AT BROOKHAVEN NATIONAL LABORATORY (continued)

"Experiences like this ignite curiosity and remind students of the global importance of scientific research," said Dr. Furlan. "BNL's cutting-edge facilities and welcoming outreach truly inspire future scientists and leaders."

The trip reinforced the Chapter's mission to link classroom learning with real-world science. Looking ahead, the USMMA ACS Student Chapter will take part in the National Chemistry Week Celebration at the New York Hall of Science on Sunday, October 19, 2025. Sponsored by the New York Section of the ACS and guided by the national ACS theme, *The Hidden Life of Spices*, the event will bring hands-on chemistry to more than a thousand attendees, especially K-12 students from hundreds of families across the community.

Pictured at right: Semantha Soo (left) and Amaya Wilson (right) enjoying their visit to the Center for Functional Nanomaterials, Brookhaven National Laboratory.

SOLUTION TO JUNE CROSSWORD PUZZLE

Contributed by Dr. Paris Svoronos and Jun Shin

1 C	2 H	3 I	C	4 H	5 I	6 B	7 A	8 B	9 I	10 N
11 A	I	R	■	12 A	C	E	T	A	T	E
13 R	N	■	13 A	R	E	N	E	■	15 E	U
16 B	S	■	17 S	D	■	■	■	18 G	■	T
19 O	B	O	E	■	20 C	L	■	21 A	22 I	R
23 C	E	■	■	24 A	R	■	25 A	S	I	A
26 A	R	27 B	28 U	Z	O	29 V	■	■	30 I	L
31 T	G	I	F	■	32 W	E	33 A	34 K	■	■
I	■	35 R	O	36 E	N	T	G	E	37 N	■
38 O	39 B	C	■	R	■	O	■	40 T	O	41 P
41 N	I	H	■	42 G	A	■	43 L	O	N	E

CHEMICAL & ENGINEERING NEWS DEBUTS CROSSWORD PUZZLE

Not to be outdone by The Indicator, C&EN recently debuted a monthly crossword feature. The first was assembled by Daniel Bodily, a robotics research engineer at 3M in Minnesota, and George Barany, professor emeritus of chemistry at the University of Minnesota Twin Cities. They thank Marcia Lysakowski Brott and Irene Cesa for helpful advice.

Blank puzzle
Completed puzzle

OPPORTUNITIES

For Undergraduates

ACS Student Communities Engagement Grant
Open deadline

ACS Student Communities Inclusion Grant
Open deadline

For Graduate Students / Postdocs

Miller Research Postdoctoral Fellowship
Application due October 10

Marie Sklodowska-Curie Fellowship
Due October 31

Life Science Research Foundation Postdoctoral Fellowship
Due October 31

Kenneth G. Hancock Memorial Award
Due November 3

Heh-Won Chang, PhD Fellowship in Green Chemistry
Due November 3

Joseph Breen Memorial Fellowship
Due November 3

Raymond Davis Jr. Fellowship
Due November 5

2026 Chu Family Foundation Scholarships
Due November 14

For Professionals

ACS National Awards
Nominations due November 1

Mark Young, Scholar, and Senior Awards
Nominations due November 1

Career Achievement in Green Chemistry Education
Due November 3

Rising Scholars in Green Chemistry Education Award
Due November 3

Raymond Davis Jr. Fellowship
Due November 5

2026 HIST Award for Outstanding Achievement in the History of Chemistry
Due December 31

NEWS FROM OUR PARTNERS

Ph.D. Program in Chemistry Information Session

4-Fridays:
Sept. 12th, Oct. 10th, Nov.14th, Dec. 5th

11am-12pm

Online via Zoom

These sessions are for prospective applicants interested in applying for Fall 2026 admission to the Ph.D. Program in Chemistry. Attendees will have the opportunity to ask questions about funding, time to degree, research opportunities, and more.

After registering, you will receive a confirmation email about joining the meeting.

Register Here

Sponsored by the Ph.D. Program in Chemistry at the CUNY Graduate Center

CUNY GRADUATE CENTER

THINKING OF PURSING A GRADUATE DEGREE?

Are you a junior or senior who is thinking about pursuing a graduate degree, but unsure of how it fits into your career plans, what the application process entails, and what to expect? The ACS offers a great resource, Graduate School Reality Check, to use while you consider your options along with the ACS' ChemIDP, an online planning tool.

In addition, the Graduate Center of the City University of New York offers Information Sessions via Zoom on four Friday's this fall. Join one online and hear about the process of applying to graduate school and ask questions of the program leadership.

Register here

Reproducibility in Homogenous Catalysis

One of two webinars on the topic of reproducibility and its impacts in homogenous catalysis. We are bringing a range of perspectives from publishing to data science and materials to pharmaceutical to inform the community and focus our thinking on this essential issue.

Wednesday October 22, 2025
3:00 pm EST
Register: https://go.uvm.edu/3ujiv

Dr. Daniel Blair
St. Jude's Research Hospital

Dr. Cathleen Crudden
Editor-in-Chief, *ACS Catalysis*

Wednesday October 29, 2025
3:00 pm EST
Register: https://go.uvm.edu/d4x5q

Dr. Rick Danheiser
Editor-in-Chief, *Organic Synthesis*

Dr. Shane Krska
Merck Research Laboratories

Applications are now open for the in-person workshop, January 5–7, 2026. We are looking for individuals in the field looking to identify challenges and solutions to reproducibility issues.

Information on the workshop and application: https://catalysis-reproducibility.com/

NEWS FROM OUR PARTNERS (continued)

EAS PROFESSIONAL DEVELOPMENT WORKSHOPS

The Eastern Analytical Symposium is committed to the professional development of all symposium attendees. The following workshops are offered to all registered EAS attendees.

Extraordinary STEM Women Leaders – What Sets Them Apart
Friday, November 7
12:00 – 1:00PM
Zoom

Resume and Interview Hints Helpful for Obtaining Positions at Any Level
Wednesday, November 12
12:00 – 1:00PM
Zoom

Unlocking Your Potential: Navigating Career Change
Monday, November 17
12:00 – 1:00PM
In-person at the Crown Plaza Conference Center

A Guide to the Job Search for Young Professionals
Tuesday, November 18
12:00 – 1:00PM
In-person at the Crown Plaza Conference Center

NEW CHEMLUMINARY AWARD FOR 2026

The Committee on Nomenclature, Terminology, and Symbols (NTS) is excited to sponsor a new ACS ChemLuminary Award: Outstanding Event to Advance a Common Language for Chemistry This award is a fantastic opportunity to showcase your Local Section/Division efforts in advancing a common language for chemistry and foster inclusion in chemical communication. Whether through innovative events, educational programs, or collaborative initiatives, your contributions can make a significant impact on the community. Get as creative as you want!

Nominations are accepted between November 1 and February 15 via the Annual Report.

NEWS FROM OUR PARTNERS (continued)

DIVISON OF PROFESSIONAL RELATIONS (PROF) LEADERSHIP DEVELOPMENT AWARD

The American Chemical Society (ACS) Division of Professional Relations (PROF) will sponsor the participation of ACS PROF Members that are less than 40 years of age to travel to and participate in the annual ACS Leadership Institute normally held in January as part of the Younger Leader Development Track facilitated by the ACS Younger Chemists Committee (YCC).

Read more here

DIVISION OF ORGANIC CHEMISTRY: VIRTUAL SYMPOSIUM

The ACS Division of Organic Chemistry (DOC) invites you to attend its virtual symposium. Prof. Marvin Parasram (New York University) will present

'Anaerobic Heteroatom Transfer Reactions Promoted by Photoexcited 1,3-Dipoles'

and Prof. Brian Stoltz (California Institute of Technology) will discuss

'Complex Natural Products as a Driving Force for Discovery in Organic Chemistry.

The symposium is FREEE and open to all. Registration is not required.

Date: **Wednesday, October 15, 2025**
Place: via Zoom
Time: 12:00 – 1:30 PM

JOB BOARD

Starting your career or looking for the next challenge? Review postings at the New York ACS Job Board. Email your job postings to Jobs@NewYorkACS.org for inclusion.

Academic Positions

Visiting Assistant Professor of Chemistry – Seton Hall University

Apply here

Assistant Professor, Natural Sciences/Environmental Studies – Baruch College

Apply here

Assistant or Associate Professor of Biochemistry – Hofstra University

Apply here

Assistant Professor, Chemistry – The College of New Jersey

Apply here

Assistant or Associate Professor of Chemistry – Marist University

Apply here

Physical Sciences Lab Coordinator – Marist University

Apply here

Assistant Professor of Chemistry (Physical Chemistry)– Lafayette College

Apply here

Assistant Professor of Physical Chemistry – Lehigh University

Apply here

Tenure-Track Faculty Position in Medicinal Chemistry – Rutgers University

Apply here

Industrial Positions

Field Sales Engineer I, Shimadzu Scientific Instruments

Apply here

R&D Principal Scientist, Color Chemistry – PepsiCo

Apply here

Development Chemist – Revlon

Apply here

Senior Chemist, Development (Fragrances) – Revlon

Apply here

Research Associate, Analytical Chemistry – OSMO

Apply here

Scientist, Chemical Process Development, Process Chemistry – Bristol Myers Squibb

Apply here

Scientist – Nouryon

Apply here

Chemist (Electronic Materials/Aerospace) – Momentive

Apply here

Quality Control Chemist – Momentive

Apply here

Associate Principal Scientist, Chemistry – Merck

Apply here

Director, Analytical R&D – Merck

Apply here