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# THE HEALING POWER OF CHEMISTRY

October 15–21 | 2023  
#NationalChemistryWeek



National Chemistry Week 2023  
*See pages 9 & 10*



ACS Local Section  
North Jersey



ACS Local Section  
New York

OCTOBER 2023

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[www.theindicator.org](http://www.theindicator.org)

## THIS MONTH IN CHEMICAL HISTORY

Harold Goldwhite, California State University, Los Angeles • [hgoldwh@calstatela.edu](mailto:hgoldwh@calstatela.edu)

I am constantly amazed at the treasures one can find by exploring the internet. A favorite pastime of mine is trolling for used books about chemistry – especially older books. A few months ago I bought, for a remarkably reasonable price, a battered but complete and serviceable copy of “Philosophie Chimique” or, to use its English title “Chemical Philosophy, or the fundamental truths of modern chemistry designed to serve as fundamentals for the study of that science”. The author is none other than A. F. Fourcroy, associate and friend of Lavoisier who revolutionized chemistry through his understanding of the role of oxygen in combustion. The book I purchased is the third edition, published in 1806. The first edition of Fourcroy’s text was published in 1792. A word of explanation about the title; Philosophy can best be taken to mean theory in this context.

The book is over 360 pages long. The pages are dense with almost completely unrelieved text. You have to reach page 205 to arrive at the book’s only Table – two pages dedicated to the properties of acids. Somewhat surprising to me is the lack of a Table of the Elements; something that featured prominently in Lavoisier’s “Textbook of Elementary Chemistry” published in the 1770s.

I believe my copy of this book was misbound; Fourcroy’s preface is oddly placed between pages 16 and 17 of the Introduction. The preface is interesting. I will quote extensively from it. (The translation from the French is mine.) *“When a science has made great progress, when it has appropriate methods to perfect its advance, general truths multiply and join up naturally : such is today’s chemistry. The principles of this science were created only 20 years ago [by Lavoisier; HG] but it is already rich in corollaries and general results that reinforce the whole scheme...It is 14 years from the first publication of “Chemical Philosophy. This third edition includes many corrections and important additions. The book has been translated into German, Swedish, Danish, English, Spanish, Portuguese, Italian, and modern Greek. I think it may be included among classic books [!]... Teaching experience of more than 25 years leads me to hope that my efforts will not be unsuccessful. Paris, August 1805.”*

Obviously in a single column I cannot summarize and explain this “classic” work. An examination of one subject will have to suffice. I start with the section on the action of caloric. Lavoisier’s Table of the Elements included both light and caloric. Here’s Fourcroy’s definition of caloric: *“What people call heat is a sensation produced by a body that modern chemists call caloric.”* Notice the use of the word body. Caloric is a substance. *“Caloric penetrates everything: it separates molecules by lodging between them; it diminishes their attraction; it dilates materials; it melts solids; and rarefies liquids sufficiently to make them invisible giving them the form of an air or the gaseous state.”* Fourcroy emphasizes that caloric is a particular substance with the ability to diminish the attraction between molecules of the same kind thus facilitating their combination with molecules of a different kind. Consequently, the addition of caloric speeds up chemical reactions. He attributes to Laplace the invention of the calorimeter, *“one of the greatest contributions to chemistry”*. My own reading of chemical history suggests that Lavoisier’s name should be included with that of Laplace.

The applications of caloric are manifold: thermometers; fusion; sublimation; volatilization; artificial refrigeration; incandescence; space heating; fusion etc.

1806 is, of course, just before Dalton’s atomic theory; and long before Berzelius’ introduction of modern chemical symbolism. Lavoisier wrote the first chemical equation in the 1770s but that was in words, not symbols. It would be anachronistic to criticize Fourcroy for his presentation of chemistry purely in words. Once again, the perusal of a textbook gives us a penetrating insight into the state of chemistry at a particular time. More from Fourcroy in a later column.

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

The monthly newsletter of the New York & North Jersey Local Sections of the American Chemical Society. Published jointly by the two sections and distributed to their 6,200 members.

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**EDITORIAL DEADLINES**

November 2023	October 16, 2023
December 2023	November 16, 2023
January 2024	December 16, 2023
February 2024	January 16, 2024

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Address advertising correspondence to [Advertising Manager](#). Other correspondence to the [Editor](#).

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## October Calendar

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### NORTH JERSEY SECTION

**Thursday, October 12, 2023**

NJACS Chromatography Topical Group  
See page 8

**Thursday, October 19, 2023**

NJACS NMR Topical Group  
See page 6

**Saturday, October 21, 2023**

ChemExpo 2023  
See page 9

**Monday, October 23, 2023**

NJACS Executive Committee Meeting  
See page 5

**Thursday, November 16, 2023**

NJACS Organic Topical Group  
See page 6

### NEW YORK SECTION

**Thursday, October 5, 2023**

Long Island Subsection  
See page 11

**Sunday, October 15, 2023**

National Chemistry Week  
See page 10

**Thursday, October 26, 2023**

Hudson-Bergen Subsection  
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**Thursday, November 9, 2023**

Westchester Chemical Society  
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**Saturday, November 18, 2023**

Frances S. Sterrett Environmental Symposium  
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## NORTH JERSEY SECTION MEETINGS

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<https://www.njacs.org/>

### **2023 NORTH JERSEY ACS 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](#).

October 23 (virtual)  
 November 13 (virtual)  
 December - TBD

### **NORTH JERSEY ACS ELECTIONS VOTE NOW FOR YOUR CHAIR-ELECT, SECRETARY, AND COUNCILORS**

It's that time of year again!

- First, our NJACS elections have started (ballot from [Vote Now](#), slate below; check your Inbox!)
- Then the [ACS National elections](#)!

Note the dates for the elections are similar but the National voting ends slightly earlier than our North Jersey section voting!

The Executive Council has several open positions for dedicated volunteers to work to make our Section better in 2024. 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 2024 election is open NOW and will end on **October 27, 2023**. 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 18<sup>th</sup>. As a reminder, here is our candidate slate for the 2024 offices of Chair-elect and Secretary, as well as the multiple Councilor/Alternate Councilor positions available.

<i>Vote for one</i>	<i>Vote for one</i>	<i>Vote for three</i>
<b>Chair-elect:</b> Robert Menger	<b>Secretary</b> Elizabeth (Bettyann) Howson	<b>Councilor/Alternate Councilor*</b> Alan Cooper Sandra Keyser Jasmine (Yingchun) Lu Amanda Peterson Mann Cecilia Marzabadi Justyna Sikorska

(\*The three Councilor/Alternate Councilor candidates receiving the highest votes will be Councilors, the remaining three candidates will be Alternate Councilors, for the 3-year term from 2024 – 2026.)

## NORTH JERSEY ACS NMR TOPICAL GROUP ANNUAL NMR SYMPOSIUM

North Jersey Section  
American Chemical Society

The North Jersey ACS NMR Topical Group  
presents its  
**Annual NMR Symposium**

October 19<sup>th</sup>, 2023  
Frick Chemistry Auditorium, Princeton University, Princeton, NJ 08544

More information available on our website: <http://www.njacs.org/nmr-spectroscopy-topical-group>

\*\*\*\*\*

**Afternoon Session (1:00 – 5:00 pm EDT)**

	<b>J. Patrick Loria</b> Yale	<b>Alexej Jerschow</b> NYU	
	<b>Robert Tycko</b> NIH	<b>Jean Baum</b> Rutgers	

**Evening Keynote session (6:00– 7:15 pm EDT)**

	<b>Ad Bax</b> NIH
--	----------------------

**Dinner (7:15 – 8:30 pm), Frick Chemistry Atrium**

\*\*\*\*\*

North Jersey Section  
American Chemical Society

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**Program**

**Session 1 – Frick Chemistry Auditorium (1:00 – 2:40 PM ET)**

1:00: Thomas Osborn Popp, 2023 Chair NJACS NMR Topical Group  
*Opening Remarks*

1:00 - 1:50: J. Patrick Loria, Yale University  
*Title TBD*

1:50 - 2:40: Robert Tycko, National Institutes of Health  
*"Biomolecular Solid State NMR and MRI Experiments at Very Low Temperatures"*

**Coffee Break (2:40- 3:20 PM ET)**

**Session 2 – Frick Chemistry Auditorium (3:20 – 5:00 PM ET)**

3:20 - 4:10: Alexej Jerschow, New York University  
*Title TBD*

4:10 - 5:00: Jean Baum, Rutgers University  
*Title TBD*

**Happy Hour! (5:00 – 6:00 PM ET)**

**Evening Keynote Presentation – Frick Chemistry Auditorium (6:00 – 7:15 ET)**

Keynote Session 6:00 - 7:15: Adriaan Bax, National Institutes of Health  
*"NMR Under Pressure"*

7:15: Christine Jorge, 2024 Chair NJACS NMR Topical Group  
*Closing Remarks*

**Dinner and Social – Frick Chemistry Atrium (7:15 – 8:30 ET)**

Register on the website here: <http://www.njacs.org/nmr-spectroscopy-topical-group>

We acknowledge the generous support of our sponsors:

Luciano Müller

## NORTH JERSEY ACS ORGANIC TOPICAL GROUP FALL SYMPOSIUM 2023 CALL FOR ABSTRACTS (DUE OCTOBER 15<sup>th</sup>) AND REGISTRATION

Registration is now open! To register, scan the QR code, or visit [our website](#). Last year's event was a great success! We had over a hundred attendees and over twenty posters to celebrate Nobel Laureate Prof. Carolyn Bertozzi, Stanford, who was recognized as the 2022 Creativity in Molecular Design and Synthesis awardee. See next page for the Call for Abstracts due October 15th and [click here to see full event information](#).



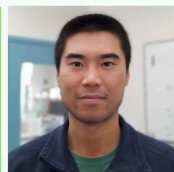
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SYNTHESIS AND CATALYSIS****BIOCATALYSIS  
PHOTOCATALYSIS  
TOTAL SYNTHESIS  
RADIO LABELING AND  
MORE!****CALL FOR ABSTRACTS**

Local graduate students, undergraduate students, and post-docs in organic chemistry are encouraged to submit an abstract to be considered for a poster session, to be held during the symposium's coffee breaks. Registration is free for student/postdoc presenters; free transportation will be arranged if needed.

**ABSTRACT GUIDELINES:**  
 <300 words. Include Name,  
 PI, Institution & Graduate  
 Level

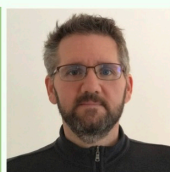
**SUBJECT LINE:**  
 NJACS Poster Abstract  
**EMAIL TO:**  
 joseph.badillo@shu.edu

**ABSTRACT DEADLINE:**  
 October 15, 2023  
**ACCEPTANCE:**  
 October 22, 2023

**SPEAKERS**

**Dr. Yichen  
Tan**

BMS  
Biocatalysis



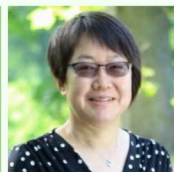
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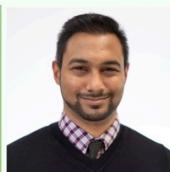
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**NOVEMBER 16, 2023 - 9:00AM - 5:00PM EST**



**The Palace at Somerset Park**  
 333 Davidson Ave, Somerset, NJ 08873

## ***NORTH JERSEY ACS CHROMATOGRAPHY TOPICAL GROUP ANNUAL SYMPOSIUM***

NJCG is hosting its annual symposium on **Thursday, October 12<sup>th</sup>, 2023**, focused on "**The Role of Chromatography in Upholding Pharmaceutical Quality**" at **Double Tree by Hilton, Mirabelle Room, 200 Atrium Dr, Somerset, NJ 08873**.

**Join the symposium's poster session! Bring your printed posters to participate.**

Please feel free to register using the link below and pass along the information to your colleagues who might also be interested.

Register at [www.njcg.org/register-for-symposium-here.html](http://www.njcg.org/register-for-symposium-here.html)

**Registration is free!**

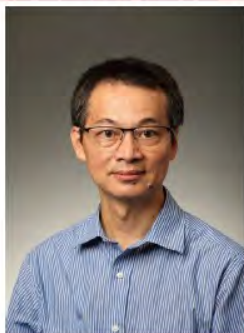
**Time: 12:00 PM – 6:00 PM EST**

[Download Flyer here](#)

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Zheng**

Sr. Principal Scientist  
Merck



**Dr. Marian  
Twohig**

Principal Scientist  
Waters Corporation



**Dr. Kenneth C.  
Waterman**

President  
FreeThink Technologies



**Dr. Dajuan  
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Manager-E&L  
SGS Health Science



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*NORTH JERSEY ACS CHEMEXPO 2023: CALL FOR VOLUNTEERS*

# CHEMEXPO 2023

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**October 21, 2023 | 12 pm – 4 pm**

**Liberty Science Center  
Jennifer Chalsty Center**

NJACS needs your help to make ChemExpo a success. If you or your organization would like to volunteer as a participant, run a demonstration, or volunteer as a general participant, visit [bit.ly/NJACSExpo](https://bit.ly/NJACSExpo)



**NEW YORK ACS NATIONAL CHEMISTRY WEEK 2023: CALL FOR VOLUNTEERS**

# THE HEALING POWER OF CHEMISTRY

October 15<sup>th</sup> | 2023 | #NationalChemistryWeek

@ New York Hall of Science – 10:00 AM – 4:00 PM



**Join ACS NY & PepsiCo with our partners at  
New York Hall of Science as we celebrate  
National Chemistry Week 2023**

We are looking for volunteers/Sponsors to perform or support Chemistry Demonstrations for NCW. General volunteers to support the event are also welcome.

**[CLICK HERE TO REGISTER](#)**



*In Celebration of National Chemistry Week 2023*

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## NEW YORK SECTION MEETINGS

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<http://www.newyorkacs.online>

### BOARD MEETING DATES FOR 2023

The remaining board meeting for 2023 is on **Monday, November 20, 2023**. This hybrid meeting is open to all, but we kindly request an RSVP for in-person attendance. Mary Virginia Orna, Ph.D. will Chair the meeting which will start at exactly 6:30 PM.

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](#).

### LONG ISLAND SUBSECTION

#### Powering Sustainable Organic Synthesis: Unlocking Potential through Visible Light-Induced Photocatalysis and Synthetic Electrochemistry



Speaker: Yalan Xing, Ph.D.  
Department of Chemistry  
Hofstra University

**Date:** **Thursday, October 5, 2023**

**Place:** Via [Zoom](#) ([Registration is free](#))

**Time:** 6:45 PM

[Download Flyer here](#)

**Abstract:** The increasing emphasis on green and sustainable organic synthesis has driven the exploration of highly efficient catalytic processes. Our research is driven by both a fundamental interest in novel synthetic transformations and the practical need for more efficient and environmentally friendly technologies. Our endeavors focus on the development of a green, energy-efficient, and atom-economic approach to organic synthesis, employing visible-light induced photocatalysis and synthetic electrochemistry. Specifically, we have harnessed visible-light induced photocatalysis for the efficient benzylic hydroperoxidation and oxidative degradation of polystyrene. Additionally, we have utilized electrochemical oxidation to generate stable benzylic carbocations through the mesolytic cleavage of TEMPO-derived alkoxyamines, enabling the formation of new C-O and C-C bonds.







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**WESTCHESTER CHEMICAL SOCIETY****Cutting And Pasting With DNA: Genome Editing**

**Speaker:** Evan Merkhofer, Ph.D.  
 Division of Natural Sciences  
 Mount Saint Mary College

**Date:** **Thursday, November 9, 2023**

**Place:** Westchester Community College  
 Gateway Center, Room 110  
 75 Grasslands Road  
 Valhalla, NY 10595  
[Email for Zoom link](#)

**Time:** 5:30 PM Coffee Hour  
 6:00 PM Speaker

[Download flyer here](#)

**Abstract:** Humans have long attempted to shape the world around them; in the field of biology this is no different. Through agriculture and domestication, humans have harnessed aspects of biology for their advantage. With rapidly evolving molecular biology tools and the post-genomic era of genetic information, the ability to manipulate DNA sequences has opened up a new world of potential implications in research, medicine, ecology, and many more fields. The CRISPR/Cas9 system of genome editing allows precise modifications of DNA far superior to previous methods. The potential uses for this technology include somatic and germ cell therapy, gene drives, genetically modified crops, and much more. However, these applications are not without biological and societal implications. This presentation will address the uses and consequences of this paradigm-shifting technology, including recent breakthroughs utilizing CRISPR.



**NEW YORK ACS MEMBERS  
 HONORED WITH NATIONAL AWARDS**



Congratulations to Rachel Narehood Austin (Barnard College, left) & Stephen A. Koch (Stony Brook University, right) on their selection as ACS National Awardees. Both are New York ACS members and accomplished bioinorganic chemists. Prof. Austin is being recognized with the ACS Award for Research at an Undergraduate Institution and Prof. Koch is being recognized with the ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry.

[Read about all the Awardees](#)  
[2025 Award Nominations due November 1](#)

**The deadline for  
 submitting material  
 for the November  
 issue of The Indicator  
 is October 16<sup>th</sup>**  
<http://www.theindicator.org/>

**HUDSON-BERGEN SUBSECTION****Synthetic Design of Chromophore/  
Semiconductor Interfaces for Solar Energy Applications**

Speaker: Elena Galoppini, Ph.D.  
Department of Chemistry  
Rutgers University – Newark

**Date:** **Thursday, October 26, 2023**

**Place:** Dickinson Hall Room 4468  
Fairleigh Dickinson University  
Teaneck, NJ 07666

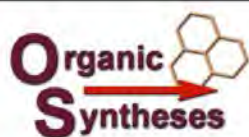
**Time:** 5:00 PM Pizza and refreshments  
6:00 PM Lecture

**RSVP:** [Email by October 20<sup>th</sup>](#) by email before 10/20

[Download Flyer here](#)



**Abstract:** For the design of new photocatalysis and solar devices, and a better understanding of relevant photophysical processes, it is necessary to achieve molecular-level control over molecule/inorganic interfaces. This remains a significant and evolving challenge because of the heterogeneity and complexities associated with surfaces of nanostructured semiconductor materials and electrodes. Chromophore-bridge-anchor molecules are employed to carry out these studies and to prepare devices, and our group is interested in emerging concepts in the use of the linker, that is the bridge-anchor moiety. The talk will focus on this area, particularly the use of “functionally active linkers”, focusing on our recent work perylene-bridge-anchor compounds with one or two linker units. A combination of photophysical characterization and computational analysis in solution and on semiconductor surfaces were used to probe the influence of the number of linkers (one vs. two), their structure (conjugated, saturated) and their substitution position (ortho vs. peri). This study shows that small conformational changes differ between each linker and can have significant influence on interfacial charge transfer. The talk will also address other aspects of molecular design that our group has studied over the years, specifically the influence of interfacial dipoles. Our approaches have demonstrated that it is possible to predictably shift the energy alignment at the chromophore/semiconductor interfaces using linkers with a large and highly oriented molecular dipole.



## 2023 Organic Syntheses Lectureship



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**Professor Jeff Aubé**

Distinguished Professor, Center for Integrative  
Chemical Biology and Drug Discovery  
Professor, Department of Chemistry,  
University of North Carolina at Chapel Hill

“Collaborative Medicinal and  
Organic Chemistry”

**Dr. Michael Clift**

Principal Research Scientist I,  
AbbVie, North Chicago, IL

“Enabling Chemistry at the  
Interface of Late Discovery and  
Early Development”



Wednesday, November 1<sup>st</sup>, 2023 – 11:30 a.m.

Life Science Center II Room 130  
225 University Ave., Newark, NJ

**Seminar Information**

Hosted by:  
Professor Michal Szostak  
Department of Chemistry

Wednesday, November 1<sup>st</sup>, 2023 – 2:30 p.m.

Life Science Center II Room 130  
225 University Ave., Newark, NJ

**2023 FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM****2023 Frances S. Sterrett Environmental Chemistry Symposium***What is the Future of Electric Vehicles?*

Saturday, November 18, 2023

Berliner Hall Room 117, Hofstra University, Hempstead, N.Y. 11549-1000

<http://newyorkacs.online/sterrett/>

*The Frances S. Sterrett Environmental Chemistry Symposium is committed to delivering current and accurate scientific insights on environmental subjects to the public. Co-hosted by the Long Island Subsection and the New York Section of the American Chemical Society (ACS), this event is made possible with support from the ACS LS-MEET Grant, and Hofstra University's Chemistry Department. We invite you to join us and gain invaluable insights from field experts as they illuminate the path forward for electric vehicles (EVs), exploring the evolution of EV batteries and beyond.*

**Dr. Hao Liu**

Assistant Professor  
Chemistry Department  
Binghamton University  
*Multi-electron Redox for Na-ion Battery*

**Dr. Esther Takeuchi**

SUNY Distinguished Professor  
Knapp Chair in Energy & Environment  
Stony Brook University  
*Impact of Repeated Fast Charge on Electric Vehicle Batteries*

**Dr. Muhammad Mominur Rahman**

Chemistry Research Associate  
Chemistry Division  
Brookhaven National Laboratory  
*Electrolyte Additives & Solvent Development for Li-Metal Batteries*

**Dr. Kenneth Takeuchi**

Distinguished Teaching Professor  
Chemistry Department  
Stony Brook University  
*New Materials Concepts for Next Generation Electric Vehicle Batteries*

**Dr. Paris Svoronos**

Professor, Retired  
Outstanding CC Professor-CASE/Carnegie  
CUNY-Queensborough Community College  
*Nikola Tesla: Life & Contributions to AC Theory & Modern Technologies*

**Dr. Steve Greenbaum**

CUNY Distinguished Professor  
Physics Department  
CUNY-Hunter College  
*Structural & Dynamical Insights of Novel Li<sup>+</sup> Battery Solid Electrolytes via NMR*

**Dr. Priyanka Bhattacharya**

Senior Manager  
Battery R&D  
Blue Current INC  
*Prospects of Solid-State Batteries for Electric Vehicles and Beyond*

**Dr. Brian Gibney**

Professor and Chair  
Department of Chemistry & Biochemistry  
Brooklyn College  
*From Gasoline to Green: Adventures in Old-Fashioned and Electric Car Driving*

**Dr. Linda L. Gaines**

Transportation Systems Analyst  
Argonne National Laboratory  
*Lithium-ion Battery Materials Consideration Beyond Performance*

**Dr. Amy Marschilok**

Energy Storage/System Division Manager  
Brookhaven National Laboratory  
*Future Electric Vehicle Batteries: Challenges and Opportunities*



**ACS** Local Section  
New York  
Long Island Subsection

**Registration** (free): using the link [2023 LIACS-ECS](#)  
**Contact:** [Dr. Paris Svoronos](#) – Symposium Chairperson

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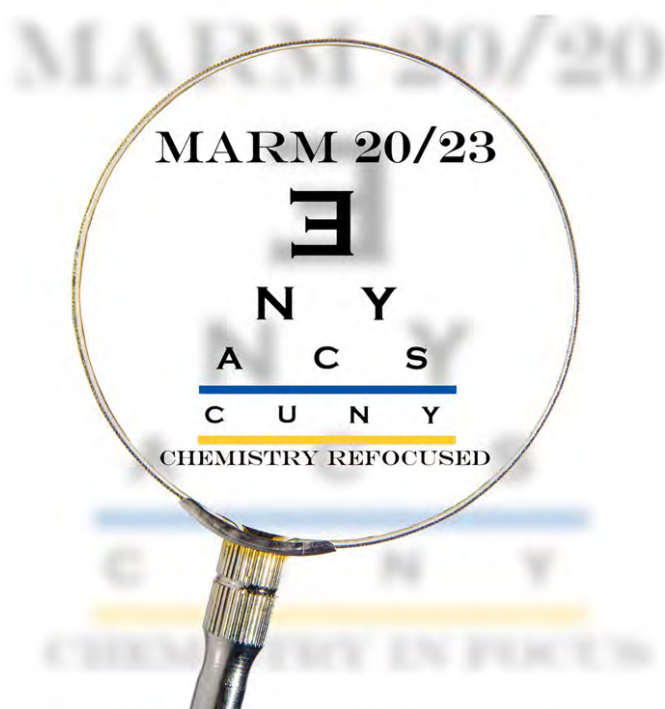
## MEETING REPORTS

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### **MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023**

Contributed by Joseph M. Serafin and Rita Upmacis

The New York ACS along with its partners at the Graduate Center of the City University of New York and St. John's University hosted the 2023 Middle Atlantic Regional Meeting on June 9-10, 2023. With 393 attendees, this mini-MARM had the theme of 'Chemistry Refocused' and included technical sessions, poster sessions, an exposition, employment programming including a resume review workshop, a graduate study fair, a social media social, a Women's Chemists Committee workshop on Promotion to Full Professor, a 50/60/70-year member luncheon, and an awards banquet. Both days were great successes for all parties involved.



**ST. JOHN'S  
UNIVERSITY**



**ACS** Local Section  
New York

#### Leadership Team

General Co-Chairs were Alison Hyslop and Joe Serafin. Brian Gibney was the Program Chair and Webmaster. Jill K. Rehmann was the Treasurer. Ping Furlan was the Exposition Chair. C. Eric Cotton was the Awards Chair. Mary Virginia Orna is the New York Section Chair. Charnita Short was the Coordinator from the ACS Office on Regional Planning. In addition, Judith C. Giordan, the ACS President, and Teri Quinn Gray, the ACS District III Director, attended and met many of the participants and were involved with many of the activities.

## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

### Technical and Poster Sessions

The MARM 2023 Program had the following six main areas of focus :

#### Chemistry of Life Sciences

This symposium described a dynamic range of recent chemistry-based advances, from fundamental synthetic chemistry studies of chemical reactions to target-oriented synthesis up to chemical biology and translational research. This session was chaired by Stacey Brenner-Moyer and featured the following speakers: Tania Lupoli - New York University, Neel Shah - Columbia University, Enver Izgu - Rutgers University - New Brunswick, Derek Tan - Memorial Sloan Kettering Cancer Center, Ryan Murelli - Brooklyn College – CUNY, Joseph Badillo - Seton Hall University, and Mary Watson - University of Delaware.



Cosmetic Chemistry Symposium, Giorgio Dell'Acqua

#### Cosmetic Chemistry

The New York Local Section of the ACS and the New York Society of Cosmetic Chemists (<https://nyscc.org/>) offered a morning symposium focused on cosmetic chemistry coupled with a panel discussion on careers in the cosmetics industry. The speakers in this symposium covered topics ranging from sustainable approaches to sourcing cosmetic ingredients, decoding ingredient labels, hair care chemistry, sunscreen formulations and textile technology in cosmetic formulations. This technical session was capped off with a Q&A about the cosmetics industry. This session was chaired by Giorgio Dell'Acqua (shown above) and featured the speakers: Amber Evans – Moroccanoil, Giorgio Dell'Acqua – Nutrafol, Hani Fares - Ashland Specialty Ingredients, Stacey House – Coty, Sue Feng - E.T. Browne's Global Research and Innovation.



## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

### Environmental Chemistry

This symposium covered a variety of aspects of environmental chemistry including battery technology and the impact of chemicals in the environment on fish and humans. This session was chaired by Yosra Badiei (shown below with her students) and featured the following speakers: Stafford W. Sheehan, Air Company Holdings, Inc., Yuanchunyu Lin, Columbia University, Kenneth J. Takeuchi, Stony Brook University, Sai Puneet Desai, Brookhaven National Laboratory, Jared Paul, Villanova University, Marie F. Thomas, Fordham University, Abd Ur Rehman, Clarkson University, Y.Y. Tong, Georgetown University, Tamasgen Fikadu F. Yadeta, National Taiwan University of Science and Technology, and Wanlu Li, St. Peter's University.



Prof. Yosra Badiei with her students

### Flavor and Fragrance Chemistry

This symposium covered the full spectrum of the Flavors and Fragrances field. Fundamental research was described, as was product development. The speakers discussed lab work and career development from the wide range of fields in which the Flavors and Fragrances chemist has the privilege in which to work. This session was chaired by Peter de Rege and Cecil Sigamoney and was sponsored by dsm-firmenich and Symrise and featured the following speakers: Prof. Kevin Ryan, City College of New York – CUNY, Mr. Randy Arroyave, dsm-firmenich, Inc., Prof. Pamela Dalton, Monell Chemical Sciences Institute, Dr. Gary Womack, dsm-firmenich, Inc., Mr. John Wright, [johnrwright.com](http://johnrwright.com), Mr. Jingyu Feng, dsm-firmenich, Inc., Ms. Amanda Deplet, Symrise, Inc., Dr. Deirdre Forrester, PepsiCo, and Dr. Tamara Hopkins, International Flavors & Fragrances, Inc.

## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

### Materials Chemistry

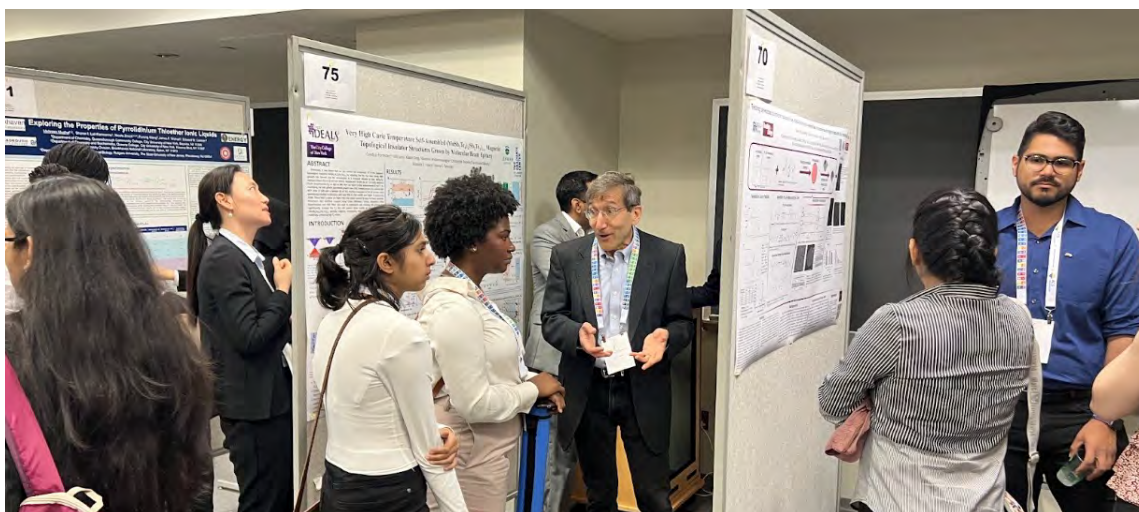
This symposium explored the latest research in the design and synthesis of materials with interesting physical properties. Examples include hydrogels, ionic liquid-based biomaterials, superoleophobic materials, and doped-TiO<sub>2</sub> for applications ranging from electrocatalysis to plasmonics to anti-bacterials. This session was chaired by Donna McGregor and featured the following speakers: Dorte Eisele, City College of New York – CUNY, Miguel Modestino, New York University, Devan Solanki, Yale University, Anthony Hall, Johns Hopkins University, Evan Jahrman, National Institutes of Standards and Technology Materials Measurement Laboratory, Jin Monclare, New York University, Naphtali O'Connor, Lehman College – CUNY, Timothy Vudent, Rowan University, Hao Jing, George Mason University, and Arpita Shome, University of Georgia.



Younger Chemists Committee Symposium Organizers & Speakers

### Younger Chemists Symposia

The speakers in the Younger Chemists Symposium were all junior scientists with bright futures ahead. An eclectic range of topics were covered, including analysis of esters in beer, recycling energy-relevant metals, and superhydrophobic surfaces, and oxygen transfer photochemistry. This session was chaired by Mary Okorie (at right in photo) and Tiffany Olivera (at left in photo) and featured the following speakers: Amanda Ooi, Columbia University, Angelle N. Montana, Hartwick College, Scott Ruppel, Stephens Institute of Technology, Hasanuwan Ihalagedara, The College of Staten Island & the PhD Program in Chemistry at the CUNY Graduate Center, Emma Gogarnoiu, New York University, and Suong Tran, Dickinson College.

**MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)**

Prof. Alan Lyons (College of Staten Island – CUNY) discussing his poster

**Awards**

In a year with a number of truly outstanding nominations, the following awardees were recognized at the 2023 MARM Dinner and Awards Presentation ([download program here](#)). Prof. Benny Chan of The College of New Jersey (shown at right) received the Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences for 2023. Roxanne Spencer received the ACS Division of Chemical Education (CHED) Middle Atlantic Region Award for Excellence in High School Teaching. As detailed in the September 20223 issue of The Indicator, Prof. Ipsita Banerjee received the E. Emmet Reid Award in Chemistry Teaching at Small Colleges in the ACS Middle Atlantic Region and Prof. Barbara R. Hillery received the E. Ann Nalley Middle Atlantic Region Award for Volunteer Service to the American Chemical Society.



Stanley Israel Awardee Dr. Benny Chan

## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

### Educational Program

The education programming was presented on Saturday, June 10<sup>th</sup> at St. John's University and included the Middle Atlantic Region High School Chemagination Contest and the Diversifying the Curriculum in High School Chemistry. For the latter event, Dr. Sibrina Collins Professor & Executive Director of STEM Education, Lawrence Technological University, presented on the importance of storytelling in STEM Education. She also presented a practical application which was a biochemistry laboratory experiment which was based on the research of Dr. Marie M. Daly (the first African American Woman to earn a PhD in Chemistry in the USA). There was a vigorous discussion after her presentation which was moderated by Maria Contel and Naphtali O'Connor.



50-, 60-,70-Year ACS Member Awardees at the Luncheon

### Special Events

#### 50-, 60-, and 70- Year Member Lunch

Members reaching their milestone in 2023 were invited to attend a complimentary awards luncheon at the CUNY Graduate Center, William Kelly Skylight Ballroom, New York City on Friday, June 9, 2023. Invitations were also extended to members reaching these milestones during the COVID era. The award luncheon was held in conjunction with the 2023 Middle Atlantic Region Meeting at CUNY Graduate Center. The awards were presented by Judy Giordan, President, American Chemical Society, Mary Virginia Orna, Chair, ACS New York Section, and Frank Romano, NYACS Membership Awards Chair. This venue gave a spectacular view of the Empire State Building through the skylight. In addition to the honorees, North Jersey Younger Chemist Committee members Ms. Tiffany Olivera and Dr. Mary Okorie also participated. Attendees really enjoyed this event and were glad they were able to attend. They are looking forward to their next 10-year anniversary milestone. This event was sponsored by the New York Section and a grant from the ACS Senior Chemists Committee to provide this event free of cost and was organized by Frank Romano, Member Awards Chair.

**MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)**

North Jersey ACS YCC Members, Tiffany Olivera and Mary Okorie , at the Luncheon  
WCC Workshop

A Promotion to Full Professor workshop was held on June 9<sup>th</sup> at MARM 2023 for those who have been associate professor for at least three years. The workshop was organized and led by Drs. Alison Hyslop, Sharon Lall-Ramnarine and Rita Upmacis. This event was sponsored by the NY ACS MetroWomen Chemists' Committee, which is a local section affiliate of the Women Chemists Committee (WCC).

Women play a key role in academia. In fact, the majority of nontenure-track lecturers and instructors across institutions are women. However, of all women faculty, only 44% are tenure-track and only 36% rise to the rank of full professors.<sup>1</sup> There are many reasons why so few women are full professors including sexism, care-giving duties, lack of finances to hire additional help, and an unbalanced expectation for more committee service.<sup>2</sup> Recognizing the fact that a disproportionate number of women spend longer at the rank of associate professor, and could benefit from peer mentoring and encouragement, we developed the workshop to provide associate professors guidance on applying for promotion to full professor. The workshop included sharing our own experiences going through the process and providing advice on how to build a compelling package that highlights teaching, research, and service accomplishments.

While the workshop was open to all, a goal was to encourage and support women who, in general, wait longer to go up for promotion. Prior to the event, the organizers actively contacted associate professors in the NYC metro area, advertised the workshop with flyers at the NY ACS Distinguished Nichols Medal symposium and banquet, which took place in April 2023, and promoted it on the MARM 2023 website.

**MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)**

WCC Workshop Organizers

WCC Workshop (contributed by Rita Upmacis, Ph.D.)

A Promotion to Full Professor workshop was held on June 9<sup>th</sup> at MARM 2023 for those who have been associate professor for at least three years. The workshop was organized and led by Drs. Alison Hyslop (St. John's University), Sharon Lall-Ramnarine (Queensborough Community College) and Rita Upmacis (Pace University), shown above. This event was sponsored by the NY ACS MetroWomen Chemists' Committee, which is a local section affiliate of the Women Chemists Committee (WCC).

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When registering for MARM 2023, participants had the opportunity to sign up for the event, which was free to all. Those who had signed up, were contacted by the organizers, and asked to submit materials before the event:

- (1) the written promotion guidelines from their institutions and their idea of the unwritten guidelines,
- (2) their CV, and
- (3) three slides summarizing their accomplishments in the areas of teaching, scholarship, and service.

In this way, participants were guided to begin their process of assembling information for promotion.

## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

WCC Workshop (continued)

During the workshop, participants were able to:

- Review promotion guidelines from individual institutions.
- Design a plan and timeline for their application process.
- Develop narratives for promotions based on their accomplishments.
- Receive feedback on promotion packages with an eye to their specific institution.
- Review examples from successful promotion packages.
- Ask questions and share stories of their challenges.

In this way, participants were able to begin summarizing their own accomplishments, develop their own narrative, ask questions, and receive feedback. Following the event, the organizers thanked the participants and sent, via email, a copy of the workshop materials (a summary of the slides and a handout with the workshop assignments). The organizers also reached out and sent the workshop materials to a few participants who had signed up for the event but could not attend.

References:

1. <https://www.aauw.org/resources/article/fast-facts-academia/>
2. <https://www.chronicle.com/article/why-we-need-more-women-full-professors>



Orugbani Eli and Saleh Aloufi enjoying MARM 2023

## ***MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)***

### Graduate School /Medical School Panel

A graduate student and medical student panel was held to encourage students to ask questions and help students plan for their future career. There were 4 graduate students (2MS and 2PhD students) and 2 recently graduated medical students serving on the panel.

Some prepared questions were posed by the session organizers, Phil Lukeman and Patricia Muisener, the floor was opened to questions from the audience which was primarily students.

### Employer Round Table Discussion

A panel discussion was held with industry professionals. Initial discussion was based on prepared questions by the session moderators, Aaron Moment and Rich Rosso. After some discussion prompts from the session moderators, questions were invited from the audience. Individual resume review follow immediately after the event.



Employment Panel Presenters



Employment Panel Discussion



## MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)

### Resume Review

There was both a group resume discussion hosted by Mukund Chorghade titled “Marketing Your Brand: Writing of winning CVs and Resumes.” In addition a number of individual resume review sessions were held by industry professionals such as Jean Tom, Executive Director at Bristol Myers Squibb, Yueer Shi, Associate Scientific Director at Bristol Myers Squibb, Laura Musumeci, R&D Senior Manager PepsiCo, Joseph Wiener, R&D Senior Manager Latin America, Global Away From Home, and Sodastream at Pepsi Lipton, Amber Evans, Senior Manager of Product Development at Moroccanoil, Giorgio Dell’Acqua, Chief Science Officer at Nutrafol, Sue Feng, CSO at ET Browne, and Mikki Wossencroft, Director of HR and DEI lead at COTY.

### Graduate School Fair

A graduate school fair offered the opportunity for undergraduates and interested chemists to meet with representatives of chemistry graduate programs. Schools represented were the University of Pennsylvania, St. John’s University, CUNY Graduate Center, Rowan University, New Jersey Institute of Technology, Columbia University - Chemical Engineering, and the University of Delaware. The event was well attended and was adjacent to the Student/Early Career Programming (Employment Programming, Graduate School Panel, Medical School Panel) for convenience.



CUNY representatives at the Graduate School Fair, Prof. Yolanda Small ([Chemistry PhD Program](#)), Sebastien Poget ([Biochemistry PhD Program](#)), Ruth Stark ([City College of New York Biochemistry, Biophysics, Biodesign Program](#))

**MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)**

**CHEMISTRY PH.D. PROGRAM**  
**VIRTUAL INFORMATION SESSION**

A Zoom recruitment event for those interested in applying to the Ph.D. Program in Chemistry at CUNY.



**FRIDAY, Sept. 1<sup>ST</sup>, Oct. 6<sup>th</sup>, Nov. 3<sup>rd</sup> & Dec 1<sup>st</sup>**  
**10 am – 11am**  
Presented via zoom



**[CLICK HERE](#) or scan the QR code to register in advance!**

**You can choose to attend one or more of the sessions.**

**MIDDLE ATLANTIC REGIONAL MEETING – MARM 2023 (continued)**

## Thank You MARM 2023 Sponsors and Exhibitors

51<sup>st</sup> Middle Atlantic Regional Meeting (<https://www.marm2023.org/>)  
 Sponsored by the New York Local Section of the American Chemical Society  
 The Graduate Center of the City University of New York | June 9, 2023

Dear Sponsors and Exhibitors:  
 Thank you for your valuable support at the 51<sup>st</sup> ACS Middle Atlantic Regional Meeting. Your participation and sponsorship greatly contributed to the event's success, fostering discussions, networking, and knowledge exchange. Your dedication in showcasing products, programs, and services enriched attendee experiences, and we look forward to future collaborations.  
 MARM 2023 Executive Committee



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## CALL FOR NOMINATIONS

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### **CALL FOR NOMINATIONS: OUTSTANDING COLLEGE CHEMISTRY TEACHING AWARDS**

The New York Section is seeking nominations for the following three awards whose purpose is to recognize, encourage and stimulate high-quality teaching and research:

[Outstanding Two-Year College Chemistry Teaching Award](#)

[Outstanding Four-Year Undergraduate College and University Chemistry Faculty Teaching Award](#)

[Outstanding Four-Year University with Graduate School Chemistry Faculty Teaching Award](#)

Nominations are due October 15, 2023. Candidates need not be members of the ACS. Awardees will be recognized with a major award plaque at the Sectionwide Conference in January 2024. Prior nominations remain active for three years and updating is encouraged.

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

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## GRANT OPPORTUNITIES

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### **SCIENCE CAFÉ MINIGRANTS**

\$500 to facilitate discussions of current topics between scientists and non-scientists in a relaxed, open venue.

**DUE OCTOBER 15, 2023**

[Learn more](#)

### **LOCAL SECTION DIVERSITY, EQUITY, INCUSION AND RESPECT (DEIR) GRANT**

Up to \$3,000 to foster inclusiveness and participation within local sections, and to support interactions with other local sections, divisions, committees and other professional associations or community groups.

**DUE NOVEMBER 13, 2023**

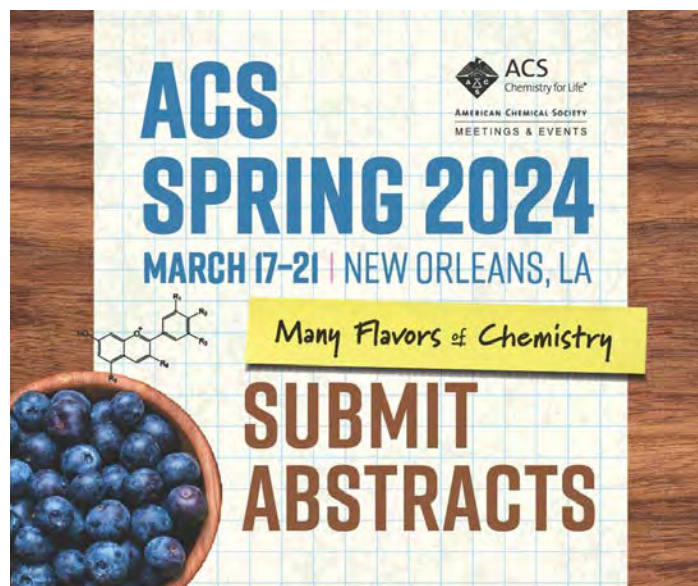
[Learn more](#)

### **LOCAL SECTION PRINCIPAL INVESTIGATOR DEVELOPMENT IN SUSTAINABILITY GRANT**

\$50,000 for a mid-career investigator to spend 6-12 month in the laboratory of a private company, a national lab, or an academic lab at another institution to foster collaborations.

**DUE NOVEMBER 15, 2023**

[Learn more](#)



## OPPORTUNITIES

### **For High School Students & Teachers**

Society for Science – STEM Research Grant

[Due October 10](#)

ChemClub Community Activities Grant

[Due November 1](#)

James Bryant Conant Award in High School Chemistry

[Due November 1](#)

### **For Undergraduates**

Joseph Breen Memorial Fellowship

[Due November 15](#)

### **For Graduate Students / Postdocs**

Younger Chemists Leadership Institute Award

[Due October 15](#)

Max Planck – Weizmann Joint Postdoctoral Program

[Due November 1](#)

NRC Research Associateship Program

[Due November 1](#)

Joseph Breen Memorial Fellowship

[Due November 15](#)

### **For Professionals**

Younger Chemists Leadership Institute Award

[Due October 15](#)

ACS National Awards

[Due November 1](#)

ACS Division of Analytical Chemistry Younger Chemists Conference Travel Grants

[Due November 1](#)

The Dreyfus Prize in the Chemical Sciences

[Due December 1](#)



<b>YOUNGER CHEMIST LEADERSHIP INSTITUTE AWARD</b>	
<b>Eligibility:</b> <ul style="list-style-type: none"> <li>• Aged under 40</li> <li>• Current grad student, post-doc, or within 7 years of start of career</li> <li>• Current ACS member</li> </ul>	<ul style="list-style-type: none"> <li>• Have not received this award before.</li> <li><b>International applicants encouraged to apply.</b></li> </ul>
<b>Grant for younger chemists to fund all expenses related to attending Leadership Institute</b> <b>Awardees will:</b> <ul style="list-style-type: none"> <li>• Acquire leadership skills</li> <li>• Learn about ACS Governance</li> <li>• Network with current ACS leaders</li> </ul>	
<b>APPLICATIONS ACCEPTED:</b> August 15th - October 15th Award Information & Application Link at: <a href="https://bit.ly/YCCLDI" style="color: white;">https://bit.ly/YCCLDI</a>	
AMERICAN CHEMICAL SOCIETY - YOUNGER CHEMISTS COMMITTEE	

### **SEMINAR SPEAKERS WANTED**

The New York Section wants to add to our Speakers Bureau database of local speakers who are available for Section-wide seminars and symposia. If you have an area of research or interest that would provide an interesting talk appropriate for our Section members, and would like to be included in our Speakers Bureau, please send an email to [Ms. Bernadette Taylor](mailto:Ms. Bernadette Taylor) with the following information that will be posted on the Section's website: your name, affiliation, a seminar title, and 5-6 words briefly summarizing your area of specialty. We look forward to hearing from you about topics that you wish to share with your fellow members!

**FROM OUR PARTNERS****Chemistry Teachers and Physics Clubs of New York**

The School of Science at Manhattan College and the Chemistry Teachers and Physics Clubs of NY are proud to present a lecture entitled, as follows: Big Data from the Early Universe.

**Speaker:** Bart Horn, Ph.D.  
Department of Physics and Astronomy  
Manhattan College

**Date:** **Saturday, October 14, 2023**

**Place:** Hayden Hall 100  
Manhattan College  
Riverdale, NY 10471

**Time:** 12:00 PM Lunch in Thomas Hall  
1:30 PM Speaker



[Download Flyer](#)

**Younger Chemists Committee**

*A Day in the Life of an*  
**ASTROCHEMIST**  
*With Dr. Olivia Harper Wilkins*

**Tuesday, October 3rd, 2023**  
**6:00-7:00 PM EDT**  
**3:00-4:00 PM PDT**

Dr. Olivia Harper Wilkins is an astrochemist, artist, and current Postdoctoral Fellow at the NASA Goddard Space Flight Center. She wrote and illustrated Astrochemistry (2021) for the ACS In Focus series, was named a 2022 CAS Future Leader, and is an Associate Member of the ACS YCC.

  
Registration Link

 **ACS**  
Chemistry for Life®

 Produced by ACS Webinars

 **FREE LIVE WEBINAR**

**CATALYZE THE VOTE**





Wednesday, October 4th, 2023 | 2pm - 3pm ET

**Meet the 2024 ACS President-Elect Candidates**

Co-produced with the ACS Younger Chemists Committee

## ***APPLYING FOR FACULTY POSITIONS AT PRIMARILY UNDERGRADUATE INSTITUTIONS***

– Contributed by Associate Professor Sarah Shaner, Southeast Missouri State University

If you are on the academic job market this year or have just been looking at job postings in anticipation of applying soon, you have probably noticed that many faculty positions are at colleges or universities without large graduate programs or PhD students. These schools are primarily undergraduate institutions, PUIs for short. They can seem mysterious if most of your experience has been at R1 or research-intensive programs. However, these positions may be a great career fit for you, and you should consider applying. Here I provide a little information about PUIs, some tips for applying to these schools, and some resources that may be helpful along the way.

According to the NSF, PUIs are colleges or universities that award Associate's, Bachelor's, and/or Master's degrees in NSF-supported fields, but that have awarded 20 or fewer PhDs in those fields in the past two years. However, schools that fit this description are quite varied: PUIs may be public or private, 2-year or 4-year, large or small. For example, I have held faculty positions at a private small liberal arts institution and at a larger regional public university. Additionally, research expectations also vary. Some positions, such as those at 2-year colleges, might exclusively involve teaching, while many PUIs have an expectation that faculty do research with undergraduates, and some have high research and publication expectations. Despite these differences, there are some general commonalities. Faculty at PUIs typically spend a larger proportion of their time teaching than faculty at PhD-granting institutions, and there is an emphasis on mentoring undergraduates.

An application for a PUI usually requires a cover letter, CV, recommendation letters, a teaching statement, and a research plan. It is important to communicate your interest and understanding about the position in these documents. This can be done in several ways. Review the school's website to understand their mission and how they wish to present themselves and look at the department's website to identify instruments you could use, classes you could teach, and faculty with research synergies. In your teaching statement, be sure to highlight any teaching or mentoring experience you have. Did you fill in to teach a few classes for your PI? Did you mentor an undergrad in your lab? If so, mention it! (And if you are still a year or so out from applying, seek out these and other more intensive teaching opportunities.) For your research plan, it is important to calibrate your projects to a PUI. Lots of interesting research can be carried out at PUIs by undergrads. However, undergraduates (and faculty at PUIs) typically have hectic class schedules, which tend to fragment their time in the research lab. Keep this in mind when proposing projects. Break projects into smaller chunks, propose modular approaches, and realize that progress will likely be slower than at a PhD-granting school. Additionally, startup packages are generally quite a bit smaller than at R1 schools, but there are often resources (gloves, compressed gases, existing instruments and stockroom chemicals) that are available through the department and do not need to be included in your startup budget.

If you are interested in finding out more, here are some resources. For the past several years, the Virtual Inorganic Pedagogical Electronic Research ([VIPeR](#)) community has hosted a series of panel discussions about the PUI job search ([click here](#), [here](#) and [here](#)). Additionally, [The Council on Undergraduate Research](#) is a good resource for connecting with faculty who prioritize engaging undergrads in research. More informally, talk to PUI faculty at conferences and ACS Local Section events. Most will be happy to chat with you about their positions and institutions.

## ***JOB BOARD***

Starting your career or looking for the next challenge? Review these and other postings at the New York ACS [Job Board](#). Email your job postings to [jobs@NewYorkACS.org](mailto:jobs@NewYorkACS.org) for inclusion.

**Lecturer/Instrumentation Specialist: Chemistry – Union College**

[Apply here](#)

**Assistant Professor of Analytical Chemistry – Vassar**

[Apply here](#)

**Assistant Professor of Analytical Chemistry – Lehigh University**

[Apply here](#)

**Pre-Health Programs Advisor - SUNY Old Westbury**

[Apply here](#)

**Program Officer – ACS Office of Research Grants**

[Apply here](#)

**Assistant Professor, Bioorganic, Chemical Biology and Inorganic – New York University**

[Apply here](#)

**Research Specialist – Regeneron**

[Apply here](#)

**Senior Principal Scientist – Danone**

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