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Indicator

NATIONAL  
CHEMISTRY  
WEEK



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National Chemistry Week 2021

NYACS page 15 – NJACS Page 7



ACS Local Section  
New York



ACS Local Section  
North Jersey

SEPTEMBER 2021

Vol. 102 • No. 7

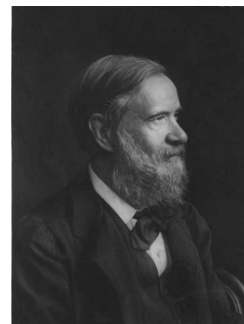
ISSN0019-6924

[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)

*This is my penultimate column in my "Great Books in Chemistry" series and we are now well into the 19<sup>th</sup>. Century, the end goal of this set of columns. I am still contemplating whether to start another set on the great books of chemistry of the 20<sup>th</sup>. Century. So here is a CHALLENGE TO THE READER. My email is at the top of the column. Please send me YOUR NOMINEES for the 20<sup>th</sup>. Century's greatest chemistry books. They may provide me with material for another dozen columns or more. The Editor's choice (that's me) is final.*



Meanwhile back to our subject: great books of the 19<sup>th</sup>. Century. This column is about a very slim book, no more than a pamphlet, but one of the most influential volumes in the whole of chemical history. It is Stanislao Cannizzaro's 1858 "Sketch of a Course in Chemical Philosophy". My personal copy is No. 18 of the valuable Alembic Club Reprints, an English translation of Cannizzaro's Italian original, published in Edinburgh, Scotland, in 1911 and reprinted in 1947.

In the first few decades of the 19<sup>th</sup>. Century, after Dalton announced his atomic theory, there was much confusion about how to go about determining good atomic weight values. The confusion was so great that many important chemists, like Humphry Davy, abandoned atomic weights for equivalent weights (the mass of an element that combined with, e.g., exactly 8g of oxygen), claiming the experimental superiority of equivalents over the "theoretical" atomic weights. Cannizzaro, planning a course in general chemistry at the Royal University of Genoa, pointed the way forward, and summarized his approach, and his course, in this book.

I quote from the opening of the book: "I believe that the progress of science made in these last years has confirmed the hypothesis of Avogadro, of Ampere, and of Dumas on the similar constitution of substances in the gaseous state; that is, that equal volumes of these substances, whether simple or compound, contain an equal number of molecules..." Cannizzaro then goes on to outline how he develops this theme to arrive at unambiguous atomic weights for those elements that form gaseous compounds.

In a clear and logical presentation he cites the work of Gay-Lussac that so influenced Avogadro; examines the arguments of Berzelius' dualistic theory that led that great chemist to reject formulas like H<sub>2</sub> and O<sub>2</sub> for the molecules of these elemental gases, formulas that inevitably proceeded from the acceptance of Avogadro's hypothesis. Gas densities then become the key to Cannizzaro's determinations of the relative weights of a variety of molecules even before their formulas are known. He then defines atomic weight empirically: "The different quantities of the same element contained in different molecules are all whole multiples of one and the same quantity, which, always being entire, has the right to be called an atom." Cannizzaro applies this principle to hydrogen, oxygen, chlorine, and, perhaps most significantly, carbon. The volatile compounds of mercury are also examined and, by applying the specific heat principle of Petit and Dulong (not acknowledged by Cannizzaro in this work!) he derives atomic weights for a number of metals. Altogether a spectacular advance in chemistry.

Cannizzaro was one of the attendees at the first international chemistry conference, held at Karlsruhe in 1860. The agenda of the conference included trying to reach agreement on such fundamental terms as atom, molecule, atomic and molecular weights etc. The planning committee could not even agree on an agenda! Meanwhile Cannizzaro made his presentation and distributed copies of his pamphlet, most of which probably made it to various round files. However two attendees kept their copies and actually read them and later alluded to the powerful impression it made on them. Both were young university faculty charged with planning a beginning chemistry course. Both used Cannizzaro's work in planning their courses. And both kept thinking about and extending Cannizzaro's ideas. Their names were Victor Meyer and Dmitri Mendeleev. Each independently and almost simultaneously invented the periodic table. And the rest, as they say, is chemical history.

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# THE 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.

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**EDITORIAL DEADLINES**

October 2021	September 16, 2021
November 2021	October 16, 2021
December 2021	November 16, 2021
January 2022	December 16, 2021
February 2022	January 16, 2022
March 2022	February 16, 2022

*The Indicator* (ISSN0019-6924) is published on-line  
monthly except July and August by the New York  
and North Jersey Local Sections of the American  
Chemical Society, Office of Publication.All views expressed are those of the editor and  
contributors and do not necessarily represent the  
official position of the New York and North Jersey  
Local Sections of the American Chemical Society  
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## September Calendar

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### NORTH JERSEY SECTION

**Thursday, September 23, 2021**

NMR Topical Group  
See page 6

**Monday, September 27, 2021**

North Jersey Executive Meeting  
See page 5

**Saturday, October 23, 2021**

ChemExpo 2021  
See page 7

*also*

**Thursday, October 18, 2021**

NMR Topical Group  
See page 6

**Saturday, October 23, 2021**

ChemExpo  
See page 7

**Thursday, November 18, 2021**

Organic Topical Group  
See page 6

**Mondays, October 18, November 15  
and December 13, 2021**

North Jersey Executive Meeting  
See page 5

### NEW YORK SECTION

**Wednesday, September 8, 2021**

Younger Chemists Committee  
See page 14

**Friday, September 10, 2021**

Board of Directors Meeting  
See page 14

**Tuesday, September 14, 2021**

Biochemical Topical Group  
See page 18

*also*

**Wednesday, October 6, 2021**

Westchester Chemical Society  
See page 16

**Wednesday, October 6, 2021**

Hudson-Bergen Subsection  
See page 15

**Sunday, October 24, 2021**

National Chemistry Week Celebration  
See page 15

**November 19, 2021**

Board of Directors Meeting  
See page 14

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## NORTH JERSEY SECTION MEETINGS

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

### **2021 NORTH JERSEY EXECUTIVE COMMITTEE MEETINGS**

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meetings to discuss topics of importance to running the section and representing the membership. The team is scheduling monthly virtual meetings on Monday evenings at 7 – 9 PM (EST). See the table below for the remaining meeting dates for 2021.

All members are welcome to attend these meetings and become more involved in section activities. For any additional information, please contact Mirlinda Biba (NJACS 2021 Chair) at [mbiba@njacs.org](mailto:mbiba@njacs.org).

### **2021 ACS North Jersey Local Section Executive Committee Meetings Schedule**

All meetings are virtual.

**Date: Monday, September 27, 2021**  
Time: 7:00 – 9:00 PM EST

#### Future Meetings

October	Monday, October 18, 2021
November	Monday, November 15, 2021
December	Monday, December 13, 2021

### ***NORTH JERSEY 2022 OFFICER ELECTIONS***

The North Jersey Section ACS 2022 election will take place **September 13 – October 12, 2021**. Balloting will be electronic and managed by [Vote-Now.com](https://www.vote-now.com). Ballots will be sent to all current North Jersey ACS members via the email address that they registered with ACS. The following are candidates for the 2022 offices of Chair-elect and Treasurer and for position of Councilor/Alternate Councilor.

Chair-elect:  
Justyna Sikorska

Treasurer:  
Miriam Gulotta  
Luciano Mueller

Councilor/Alternate councilor  
Lynda Box  
Miriam Gulotta  
Diane Krone  
Robert Menger  
Michael Peddicord  
Monica Sekharan  
Yalan Xing

**The Indicator** is read by faculty at 42 local colleges/universities that are designated as **Minority Serving Institutions**.



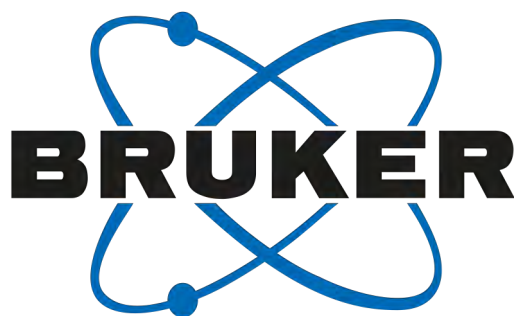
Looking for a more inclusive and diverse graduate student applicant pool? Advertise in the Fall issues (Sept-Dec) of The Indicator to let these faculty mentors/advisors and their students know what your program has to offer. [Click here for a special offer.](#)

**DID YOU KNOW?**

## NMR TOPICAL GROUP

The NMR Topical Group has two amazing events planned for the fall!

We will be having our annual "**Bruker Night**" on **Thursday September 23<sup>rd</sup>** at 6 pm EDT for dinner followed by a seminar at 7 pm EDT where we will host a speaker from Bruker Biospin to present on new developments in instrumentation and methodologies.



### Fall Symposium – Save the Date

The annual Fall Symposium will be held on **Monday October 18<sup>th</sup>** from 8 am ET to 7 pm ET to hear from world renowned experts in NMR. We have an exciting speaker lineup for this year's symposium including: [Christian Griesinger](#), [Gerhard Wagner](#), [Lewis Kay](#), and [Matthias Ernst](#).

Both events are planned to be held in person at Princeton University (pending approvals and covid restrictions moving forward) and live webcast. In the event we cannot meet in person, we will hold both events virtually via webcast.

More details on venue to come early September once we assess safety concerns and in person meeting restrictions.

Keep an eye on the [Topical Group website](#) for more details to be published soon.

## ORGANIC TOPICAL GROUP

The Organic Topical Group presents

*2021 Award for Creativity in Molecular Design and Synthesis Symposium*

honoring Prof. Stephen L. Buchwald of the Massachusetts Institute of Technology on November 18, 2021.

*ACS North Jersey Organic Topical Group presents:*

### 2021 AWARD FOR CREATIVITY IN MOLECULAR DESIGN AND SYNTHESIS

*Symposium & Award Ceremony*

**THE PALACE AT SOMERSET PARK**  
333 Davidson Ave., Somerset, NJ

**November 18, 2021**  
9:00 AM – 5:00 PM

**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. This presents an opportunity to share science and network with the speakers, local academics & industry leaders.

**Abstract Guidelines:** < 300 words  
Please also indicate name, PI, institution, & graduate level.

**Abstract Deadline: Sept. 1<sup>st</sup>, 2021**

**Email to:** [Susan\\_Zultanski@merck.com](mailto:Susan_Zultanski@merck.com)

**Subject line:** NJACS poster abstract

**Acceptance notification:** Sept. 15<sup>th</sup>, 2021

**SPEAKERS:**



Professor Stephen L. Buchwald (MIT)  
*2021 Award Recipient*



Prof. Marisa Kozlowski  
UPenn



Prof. Tianning Diao  
NYU



Prof. David MacMillan  
Princeton University



Dr. Seble Wagaw  
Senior Director  
AbbVie PR&D



Dr. Jingjun Yin  
Executive Director  
Merck PR&D

**Contributors are advised that the  
OCTOBER ISSUE  
DEADLINE  
is  
September 16, 2021**



## ***ChemExpo 2021 – Saturday, October 23, 2021 at the Liberty Science Center!***

We are proud to announce the North Jersey Section's exciting, fun-filled celebration of the National Chemistry Week – *The 27th ChemExpo!*

*Planned events include:*

- Hands-on science activities and demonstrations geared towards all levels of student from middle-school to college as well as all family members
- Contests for the best demonstration/hands-on activity by a college student team AND by a high school team – multiple prizes awarded for each category!

Please help us make ChemExpo 2021 a success by volunteering to celebrate Chemistry Week 2021 with us!

[Call for Help \(any age\)](#)  
[Call for College Students](#)

[Call for Participation](#)  
[Call for High School Students](#)

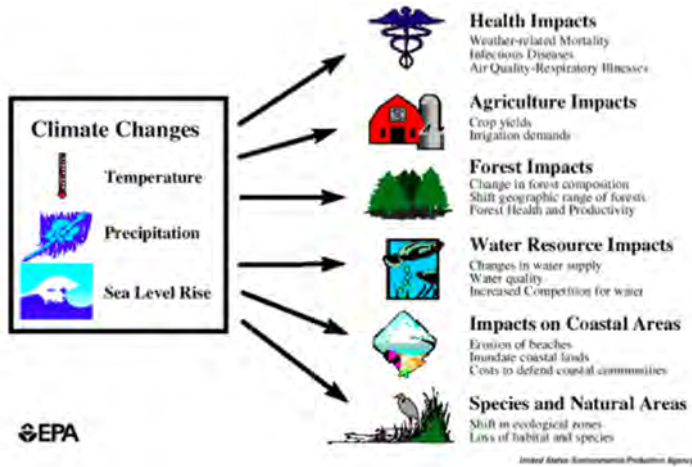


## ***MITA CHAKI HONORED WITH 2021 VOLUNTEER OF THE YEAR AWARD FOR THE NORTH JERSEY SECTION***

Mita Chaki, the 2021 North Jersey ACS Local Section Volunteer of the Year awardee, has participated in many teacher workshops and led student groups performing demonstrations during NCW and CCEW, and served as the NCW outreach committee chair for the past 5 years. Through Mita's outreach efforts & leadership, the North Jersey Section conducted numerous events that have reached hundreds area children.

[More online](#)





**2021 State Science Day Challenge:**  
*Considering issues of equity and social justice, design a solution to reduce the impacts of climate change in your community through adaptation and/or mitigation efforts.*

## State Science Day 2021 Report – Winners and Honorable Mentions Announced

New Jersey State Science Day is a competition to acknowledge high school students’ use of science and engineering practices to define a problem in your community with a focus on its marginalized and/or underserved members, and to design a solution.

The competition was held during NJ STEM Month, March 2021, and the projects were judged and celebrated at a virtual event on May 20, 2021. We are proud to list the eighteen winners, four honorable mentions, and the honored teachers here.

### Student Winners

Kurt Ajami	Manchester Regional High School
Will Allain	Hunterdon Central Regional High School
Ava Augustine	West Morris Mendham High School
Kedhar Bartlett	DCL STEM Academy
Kaitlyn Culbert	Toms River High School North
Gianna Galiano	West Morris Mendham High School
Arielle Huang	Ramsey High School
Sandra Laauwe	Manchester Regional High School
Zhenyu Li	Ranney School
Sweksha Mehta	Union County Vocational Technical High School
Elna Puri	Scotch Plains Fanwood High
Arabella Quane	Millburn High School
Saiyam Shah	John P. Stevens High School
Rutva Shah	Toms River High School North
Nafees Shaheed	Fair Lawn High School
Vidhu Suryavamsh	Hillsborough High School
Kavya Venkatesan	Old Bridge High School
Eric Wang	Millburn High School

### Honorable Mentions

María Correa	Hackensack High School
Monica Ifezue	Irvington High School
Anuja Magdum	Randolph High School
Anshbir Soin	John P. Stevens High School




**State Science Day 2021 Report – Winners and Honorable Mentions Announced**

**Honored STEM Teachers**

- |                       |                     |
|-----------------------|---------------------|
| Michael Abadir        | Rachel Lasda        |
| Alyssa Apryas         | Kathryn Meneghin    |
| Susan Arrigoni        | Rubab Nadeem        |
| Bonnie Berenger       | John Palumbo        |
| Vito Cangelosi        | Rosemarie Pittenger |
| Kate Cilluffo         | Lauren Poma         |
| Duncan Crannell       | Alyssa Shurminsky   |
| Dina Ellsworth        | Richard Skibitski   |
| Nancy FitzGerald      | Michael Sturr       |
| Christine Girtain     | Bruce Taterka       |
| Donna Griggs          | Kathleen Van Valen  |
| Joanna Knoblock-Jorge | Tanya Vollenweider  |
| Mariel Kolker         | Theresa Wertheimer  |
| Hope Kowalski-Porta   |                     |

For more information, please visit the [NJ State Science Day website](#), which will be updated with New Jersey State Science Day 2022 information as it becomes available.



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## NORTH JERSEY ACS HOLDS THEIR 2<sup>nd</sup> VIRTUAL NEW JERSEY CHEMISTRY OLYMPICS

The [New Jersey Chemistry Olympics \(NJCO\)](#) team once again triumphed over the pandemic by creating a 100% virtual event. North Jersey ACS members and NJIT's Chemistry & Environmental Science Department (CES) worked together to make the virtual NJCO (vNJCO) a success. Prior to this year, there were 34 in-person NJCOs and the 2020 NJCO planned as in-person but converted to virtual due to the mid-season shutdown. The 2021 vNJCO participants included 134 high school students from 14 different high schools across New Jersey. While the 2021 vNJCO was about half the size of an in-person competition, it was more than double the size of last year's event. In addition to the core of long-time participants, we welcomed Ridge High School and Woodbridge Academy for the first time, and welcomed back Bergen County Technical School after a long absence. We are pleased to report that all three high schools won at least one medal!



The 2021 NJCO theme was "**Chemistry and Current Events**". The eight events were:

1. Chemistry Research: Vaccine Development (including COVID-19 specific parts)
2. Environmental Science Research: Sustainability of Batteries
3. Chemical Engineering Research: Costs of Bringing a Vaccine to Market
4. Website Design: CRISPR Gene Editing Technology
5. Experimental: Physical Chemistry of Your Microwave – **NEW for 2021!!!**
6. Nomenclature test (on a new platform due to Adobe Flash deprecation)
7. Information Search: Disinfectants
8. Debate: Should PFAS be banned? – **NEW for 2021!!!**

We were delighted to see the wide distribution of medals: 10 of the 14 high schools won medals. It's a good indicator that the students and coaches all had an excellent understanding of the judges' expectations. If this trend continues to an in-person event, competition for the Platinum Crucible will be fierce.

To encourage participation by various districts with different combinations of online and in-person teaching, we instituted changes as illustrated below:

	2021 vNJCO	Prior in-person NJCOs
<b>Registration fee</b>	None	\$150 (waiver available)
<b>Team size and number</b>	No limits on team sizes or number of teams per school	Most schools had one team of up to 12 members, but could have one more team
<b># of events per team</b>	Unlimited (of 8)	Up to 6 (of 10)
<b># of teams per school per event</b>	Up to 2	Up to 2
<b>Awards</b>	1st, 2nd, 3rd for each event; no cumulative award	1st, 2nd, 3rd for each event; the Platinum Crucible awarded to the highest scoring team
<b>Judging &amp; Award Ceremony</b>	100% virtual over 2 weeks followed by an awards ceremony	Both 100% in-person; Both on Event Day

**NORTH JERSEY ACS HOLDS THEIR 2<sup>nd</sup> VIRTUAL NEW JERSEY CHEMISTRY OLYMPICS**

Participating schools and their medal totals are shown below. The number of participating students varied with South Brunswick High School bringing the most students to the competition.

<b>2021 NJCO PARTICIPATING HIGH SCHOOLS &amp; MEDAL TOTALS THANK YOU FOR BRINGING SCIENCE TO YOUR STUDENTS!!!</b>	
<b>School (NJ county)</b>	<b>Medals (event#)</b>
<b>Bergen County Technical School (Bergen)</b>	Silver (5), Bronze (2)
<b>Bergenfield High School (Bergen)</b>	
<b>Hunterdon Central Regional High School (Hunterdon)</b>	Gold (2,6), Bronze (1)
<b>John Paul Stevens High School (Middlesex)</b>	Bronze (6)
<b>Marine Academy of Technology and Environmental Science (Ocean)</b>	Gold (1)
<b>Pascack Hills High School (Bergen)</b>	Silver (1)
<b>Pascack Valley High School (Bergen)</b>	
<b>Ridge High School (Somerset)</b>	Gold (7), Silver (2, 3)
<b>Rutgers Preparatory School (Somerset)</b>	
<b>South Brunswick High School (Middlesex)</b>	Gold (6, 8), Silver (4, 7), Bronze (3, 5)
<b>Tenaflly High School (Bergen)</b>	Silver (7)
<b>Woodbridge Academy – Allied Health &amp; Biomedical Sciences (Middlesex)</b>	Bronze (8)
<b>Watchung Hills Regional High School (Somerset/Morris)</b>	Gold (3, 4, 5)
<b>Whippany Park High School (Morris)</b>	Silver (8), Bronze (4)

Special thanks to NJIT's College of Science and Liberal Arts Dean and ACS Fellow, Dr. Kevin Belfield, for securing funding for the event and for speaking at the award ceremony; Dr. Mirlinda Biba (Senior Scientist at Merck & NJACS 2021 Chair) for also speaking at the awards ceremony. Distinguished Professor and CES Chair Dr. Omowunmi Sadik contributed her department's assistance with CES staff member Ms. Genti Price providing extra help.

We also want to thank financial donors: Merck, Exemplify BioPharma and Ashland LLC. NJIT's CSLA and the NJACS contributed both funds and volunteers.

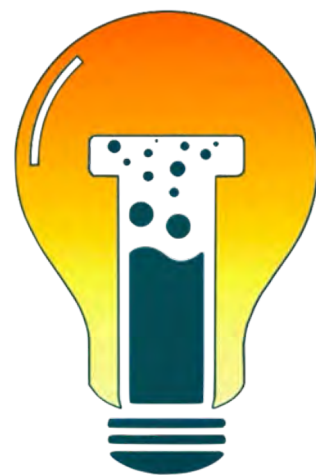
Please [email our Directors](#), Drs. Kathleen Gilbert and Miriam Gulotta, for more information on volunteering or having your high school team participate in 2022. *Note that SDA District high schools can apply for a fee waiver when they register.*

**NORTH JERSEY ACS HOLDS THEIR 2<sup>nd</sup> VIRTUAL NEW JERSEY CHEMISTRY OLYMPICS****vNJCO Award Ceremony*****Fair for Emerging Researchers Program Wins a METT Grant!***

The North Jersey Section is proud to announce the award of a Local Section Members Engaging Through Technology (METT) Grant for the [Fair for Emerging Researchers](#), founded by Drew University alumni Saif Yasin, [Zoe Coates Fuentes](#), and their teammates.

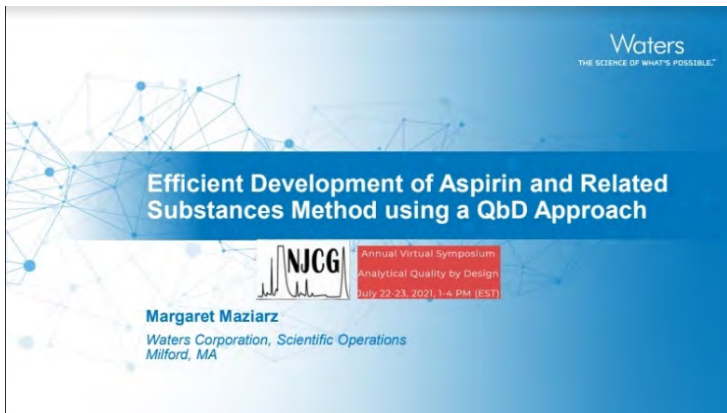
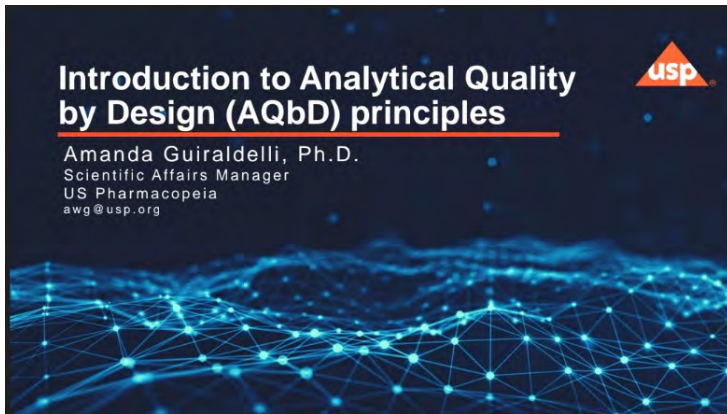
The FER program is an annual science fair held for middle school students in the NY/NJ/MD area. It was created in 2016 to provide a Project-Based Learning approach and targets students in underserved communities.

The FER was funded by an [ACS Innovative Project Grant](#) in 2017, received an ACS ChemLuminary Award in 2018, and has continued to run annual fairs, including virtual events in 2020 and 2021. We are very excited that the ACS and the North Jersey Section are both supporting this outstanding program!



[Email for more info](#)

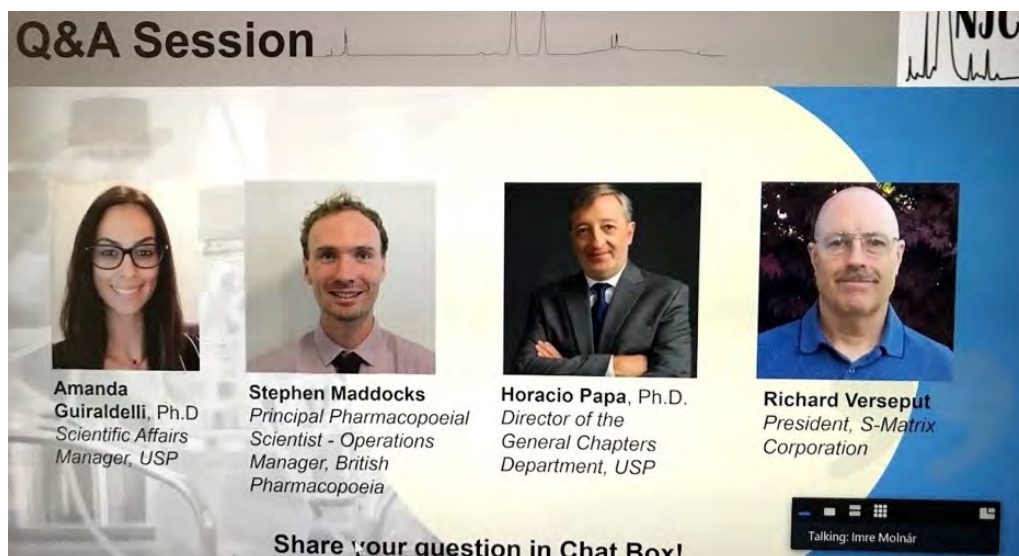
**CHROMATOGRAPHY TOPICAL GROUP SYMPOSIUM HELD IN JULY**



North Jersey Chromatography Group (NJCG) held a successful virtual Annual Symposium on Analytical Quality by Design on July 22nd and 23rd, 2021. Speakers from USP, BP, industry and suppliers shared their current thinking on this topic.

Over 400 attendees participated during the two-day symposium, an annual NJCG event held virtually this year with speakers and attendees from around the world.

More information including slides and video recordings for selected presentations can be found on the NJACS Chromatography Topical Group website: [www.NJCG.org](http://www.NJCG.org)



## NEW YORK SECTION MEETINGS

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

### 2021 NEW YORK SECTION BOARD OF DIRECTORS MEETINGS

#### MEETING DATES FOR 2021

The dates for the Board of Directors Meetings of the ACS New York Section for 2021 were selected and approved. The meetings are open to all – everybody is welcome. All non-board members who would like to attend any of the meetings should inform the New York Section office by emailing Bernadette Taylor at [btaylor@NewYorkACS.org](mailto:btaylor@NewYorkACS.org) or by calling the Section office at (732) 770-7324.

Dr. Rita K. Upmacis will chair all the meetings for 2021 which are held online. The board meetings will start at exactly 6:30 PM.

The Board Meeting dates for 2021 are:

**Friday, September 10, 2021 Board Meeting**

Friday, November 19, 2021 Board Meeting

### YOUNGER CHEMISTS COMMITTEE

The New York Section's Younger Chemists Committee, YCC, invites all chemists under age 35 to their September 8, 2021 virtual event entitled *Chemistry of Summer*. This event will feature fellow Younger Chemists discussing the Chemistry of Wine, the Chemistry of Sunscreens and the Chemistry of Frozen Confections as shown in the image below.

Meet and network with your colleagues as you dive into the exciting nuances of summer and chemistry, enjoy some fun ice breakers and games, and learn more about your Younger Chemists Committee, and how you can become involved in the NYACS.

**Date: September 8, 2021**

Time: 6:30 PM

[Register here](#)

**CHEMISTRY of Summer** YCC (Younger Chemists Committee) is hosting a chemistry of Summer "Virtual" event

Date: September 8th - 2021 Time: 6:30 pm

ACS Local Section New York Younger Chemists Committee

**FEATURED SPEAKERS**

**Chemistry of Wine: The Role of Sulfur in Wine Aroma**  
 Lauren Musumeci, R&D Manager Flavor QC - PepsiCo  
 Thiols are associated with both desirable and undesirable aromas in wine. While various factors can affect thiol concentrations in wine, analytical measurement of thiols in the wine matrix also poses unique challenges.

**Chemistry of Sunscreens**  
 Tyler Burenbadrakh, Chemical Engineering 2021 - Pace University  
 The properties of various organic, inorganic, as well as findings of new natural sunscreens will be discussed in this presentation. It also includes facts about common misconceptions about using sunscreen.

**Chemistry of Frozen Confections**  
 Gabriella Barham, Columbia University  
 Aaram Momen, Professor Chemical Engineering - Columbia University  
 The structure and properties of these frozen desserts will be discussed from an engineering and chemical point of view. The presentation will include home experiments related to making ice cream, as well scooping and mechanical properties of these desserts.

Please contact [Joseph.Wiener@PepsiCo.com](mailto:Joseph.Wiener@PepsiCo.com) for any questions  
 Register at <https://www.eventbrite.com/e/ycc-chemistry-of-summer-networking-and-games-tickets-165743399971>

## NATIONAL CHEMISTRY WEEK – CALL FOR VOLUNTEERS & PARTICIPANTS

National Chemistry Week (NCW) is the premier American Chemical Society community outreach program to elementary and secondary school children that delivers positive messages about chemistry and encourages interest in the science, technology, engineering and math (STEM) disciplines. This community-based program unites local sections, student chapters, technical divisions, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life and the role of STEM careers in economic development.

The New York Section NCW committee has is currently organizing its celebration of National Chemistry Week on Sunday October 24, 2021 and is looking for additional volunteers to help make this year's program successful.

The demonstration program will be held virtually and details of the event will follow in the October issue of The Indicator.

[Email the Committee](#)

In addition, the NY ACS will offer an illustrated poem contest to K-12 students. **The submission deadline is October 24, 2021.**

## HUDSON-BERGEN CHEMICAL SOCIETY

### Mechanisms of protein internalization and degradation at the lysosomes through the ESCRT pathway

Speaker: Dr. Sudeep Banjade  
Weill Institute for Cell and Molecular Biology, Cornell University

**Abstract:** Cells constantly remodel and recycle their components to maintain homeostasis. Among the various mechanisms of this kind of cellular quality control, the multivesicular pathway (MVB) is one of them. Cells use the MVB pathway to transport membrane proteins to the lysosome for degradation and recycling. The ESCRT (endosomal sorting complexes required for transport) machinery is a family of proteins involved in the formation of multivesicular bodies (MVBs).

**FAST OR SLOW**  
Chemistry Makes It Go!  
OCTOBER 17–23, 2021 - Official NCW WEEK

**NYACS PROGRAM - OCTOBER 24, 2021 - Virtual Program**

**Be on the Lookout for Digital Programs sponsored by NYACS:**

- **National Chemistry Week Demos**
  - Timing TBD
  - Contact Joe Wiener for more details
  - Joseph.Wiener@PepsiCo.com
- **Illustrative Poem Contest**
  - Deadline by October 24, 2021
  - Contact Erin Wasserman for details
  - ewasserman602z@gmail.com

△ **MORE TO COME SOON!**

#NCW

ACS Local Section New York  
ACS Chemistry for Life  
AMERICAN CHEMICAL SOCIETY

[For more info](#)

In addition, the ESCRT proteins are also involved in several other biological pathways beside the formation of MVBs, which include cytokinesis, virus budding, membrane repair and so on. Therefore, the ESCRT complexes work at several locations in the cell to maintain cellular homeostasis. In this talk I will discuss my recent work on understanding some of the physicochemical principles behind the assembly of the ESCRT machinery at membranes. I will also explain how multivalent interactions between one of the ESCRT components (ESCRT-0) and its substrate induces liquid-liquid phase separation (biomolecular condensation) of the components, and how this property may define the initiation of the formation of ESCRT assembly at membranes. The talk will also discuss how multivalent interactions in this system helps efficient ESCRT function in yeast organelles.

**HUDSON-BERGEN CHEMICAL SOCIETY****WESTCHESTER CHEMICAL SOCIETY****SPECIAL SEMINAR*****Finding Origins of Life in Ancient Biological Electric Wiring***

Speaker: Prof. Yana Bromberg, Ph.D.  
 Professor, Department of  
 Biochemistry and  
 Microbiology, Rutgers  
 University  
 Adjunct Professor, Department  
 of Genetics, Rutgers  
 University  
 Hans Fischer Fellow, Institute  
 for Advanced Study,  
 Technical University of  
 Munich  
 Vice President, Board of  
 Directors of the  
 International Society for  
 Computational Biology

**Bio:** Dr. Banjade, above, is a Postdoctoral Fellow at the Weill Institute for Cell and Molecular Biology, Cornell University, Ithaca, NY. His research interests include cellular quality control and cellular compartmentalization. He obtained his bachelor's degree at Fairleigh Dickinson University, where he was a Fairleigh S. Dickinson Scholar and an Honors student. He obtained his PhD in Molecular Biophysics at UT Southwestern Medical Center at the Department of Biophysics. His graduate work earned him the Kaluza Award from American Society of Cell Biology (ASCB). His postdoctoral work is supported by Damon Runyon Cancer Research Foundation.

**Date:** Thursday, October 21, 2021  
**Time:** 5:30 PM via [Zoom](#)  
**Cost:** Complementary  
 (reservations required)

RSVP to [Dr. Mihaela Leonida](#), or [Dr. Ish Kumar](#)  
 by October 14, 2021

**Abstract:** How did life appear on our planet? Alexander Oparin's 1924 theory of abiotic evolution of carbon-based molecules in a primordial soup suggests a means to the end. However, the evolutionary path beyond formation of individual molecules remains one of the most profoundly unanswered questions in biology. Although the first self-replicating biological molecules were possibly the catalytic RNA fragments, *i.e.* ribozymes, propagating these ribozymes requires energy. Biologically catalyzed redox reactions, *i.e.* proton coupled electron transfer, drive the energy requirements of all life on Earth. This observation implies that redox reactions must have been among the first (if not *the* first) functionalities acquired by early life. Hence, understanding the evolution of oxidoreductases, *i.e.* the enzymes responsible for the catalysis of redox reactions, potentially can elucidate the origin of life.



**WESTCHESTER CHEMICAL SOCIETY**

We aimed to explore the patterns of evolution of oxidoreductases. We found that the peptide structures that bind transition metals, ubiquitous in redox, have similar topology across the full diversity of exiting proteins. Moreover, similarity between these structures reflects the environmental (read: Archaean Ocean) availability of key transition metals over geological time – a fossil record of sorts. It also strongly suggests that metal binding had a small number of common origins. We also observed that metal-binding structures central to our network of structural similarities came primarily from oxidoreductases, further confirming the idea that ancestral peptides facilitated electron transfer reactions. Finally, our results suggest that the earliest, biologically-functional peptides were likely available prior to the assembly of the first fully functional protein domains over 3.8 billion years ago.

The work that will be described in this session was performed under the auspices of the ENIGMA (Evolution of Nanomachines In Geospheres and Microbial Ancestors) project which was detailed by [Tools of Science in a short YouTube video](#).

**Date:** Wednesday, October 6, 2021  
**Time:** 7:00 PM  
**Modality:** Hybrid or Zoom-only (TBD)  
**Cost:** Complementary

RSVP by text or email to Rolande Hodel, Peter Corfield, or Paul Dillon for Zoom link

**Bio:** Dr. Yana Bromberg received her Bachelor degrees in Biology and Computer Sciences from the State University of New York at Stony Brook and a Ph.D. in Biomedical Informatics from Columbia University, New York. She is known for her seminal work on a machine learning-based method for screening for effects of genetic variation (SNAP). This work has led to Dr. Bromberg's current interests in the analyses of human genomes and associated microbial metagenomes for disease predisposition. Broadly, research in the Bromberg lab is focused on the molecular functional annotation of genes, genomes, and metagenomes in the context of specific environments and diseases. The lab also studies evolution of life's electron transfer reactions in Earth's history and as potentially applicable to other planets – a topic that she will discuss today. Dr. Bromberg is frequently invited to talk about her research in conferences all over the world and has, to-date, co-authored over 80 peer reviewed scientific articles. Her work has been recognized by numerous awards, including the NSF CAREER award, the Rutgers Board of Trustees Research fellowship for Scholarly Excellence, the PhRMA foundation young investigator research starter award, and the Hans-Fischer award for outstanding early career scientists. The work has also been funded by various agencies including the NSF, NIH, NASA, and a number of private foundations.

#### Next Westchester Chemical Society Meeting

#### **Engineering Fluorinated Thermo-Responsive Assembled Protein (F-TRAP) for Theranostic Applications in Glioblastoma Multiforme**

Wednesday, November 10, 2021

**BIOCHEMICAL TOPICAL GROUP —  
JOINT MEETING WITH THE NYAS  
BIOCHEMICAL PHARMACOLOGY  
DISCUSSION GROUP**

**Redirected Immune Cell Therapies**

*Organizers:*

Steven Hansel, PhD  
Boehringer Ingelheim  
Susanne Hipp, PhD  
Boehringer Ingelheim  
Lance Kam, PhD  
Columbia University  
Alison Carley, PhD  
The New York Academy of Sciences

*Speakers:*

*Keynote*

Koustubh Ranade, PhD  
Immunocore  
Elham Azizi, PhD  
Columbia University  
Tal Danino, PhD  
Columbia University  
Saba Ghassemi, PhD  
Perelman School of Medicine at the  
University of Pennsylvania  
Morgan Huse, PhD  
Memorial Sloan Kettering Cancer Center  
Ning Jenny Jiang, PhD,  
UT Austin  
Paul Parren, PhD  
Lava Therapeutics

Emerging science highlights the expanding repertoire of potentially therapeutic immune cells—for example, macrophages and Natural Killer (NK) cells—as well as the strategies employed for immune cell redirection through innovative format design. This symposium will explore basic insights regarding immune-cell trafficking and immunological signaling; multispecific antibody design features enabling optimal biodistribution and activity in target tissues (e.g. solid tumors); and experimental and pharmacokinetic/pharmacodynamic models for more confident clinical translation.

**Date:** Tuesday, September 14, 2021  
**Time:** 10:30 AM – 5:30 PM (reception to follow)  
**Place:** The New York Academy of Sciences  
Virtual Symposium via Webcast  
**Cost:** This event has **reduced-rate registration** for ACS and NYAS members, at \$85 or \$30 (for students and post-docs). Please select the appropriate non-member Registration Category and use the **Priority Code ACS**. Non-members may attend for a fee of \$130 (corporate), \$105 (non-profit or academic) or \$40 (students and post-docs).

For more information and to register for the event, go to: [www.nyas.org/redirectimmune](http://www.nyas.org/redirectimmune)

To become a Member of the Academy, visit [www.nyas.org/benefits](http://www.nyas.org/benefits)

Future Biochemical Topical Group Meetings

**Pulmonary Hypertension: Beyond Vasodilators**

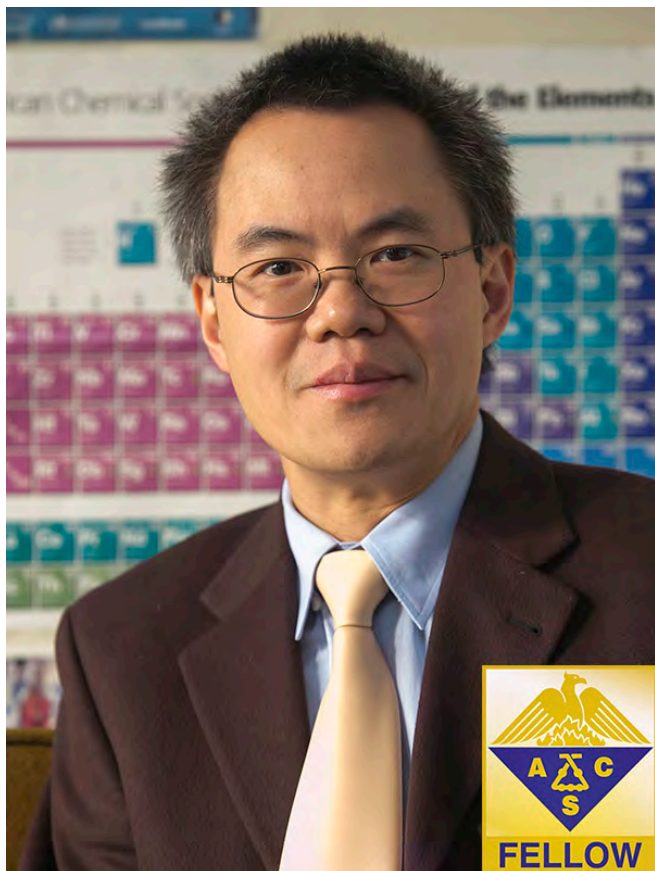
**Tuesday, October 12, 2021**

**Covalent Modification: Chemical Biology and Therapeutic Applications**

**Tuesday, November 9, 2021**

**SEMINAR SPEAKERS WANTED**

The New York Section wants to add you 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!

**STANISLAUS S. WONG, PH.D. NAMED AMERICAN CHEMICAL SOCIETY FELLOW**

Join the New York ACS in congratulating our fellow member, Distinguished Professor Stanislaus S. Wong of Stony Brook University and Brookhaven National Laboratory, upon his selection as an American Chemical Society Fellow. This honor recognizes Prof. Wong's outstanding achievements in and contributions to the science and the profession and his equally exemplary service to the Society

An recognized world expert in the practical applications of nanotechnology tailored for energy applications, Prof. Wong has made seminal contributions in controlled chemical functionalization of carbon nanotubes and green synthesis of monodisperse nanostructures of perovskite oxide materials. In addition, he has served in the leadership of two the divisions, Inorganic Chemistry & Energy and Fuels, and several ACS journals including his current efforts as an Executive Editor of [ACS Applied Materials & Interfaces](#).

[More online](#)

**JOSEPH M. SERAFIN, Ph.D. HONORED WITH 2021 VOLUNTEER OF THE YEAR AWARD FOR THE NEW YORK SECTION**

Associate Professor & Chemistry Department Chair Joseph Serafin, Ph.D., of St. John's University has been named the ACS Volunteer of the Year (#ACSVoty) recipient for the New York Local Section. Joe is being recognized for organizing a series of symposia on online teaching and learning in response to the COVID pandemic.

[More online](#)

*“When you can connect energetic professional volunteers with opportunities to talk about science the sky is the limit.”*

*~Joseph Serafin*



# Service Dogs in Your Chemistry Lab



**Date:** Wednesday, September 22, 2021 @ 2-3pm ET

**Speakers:** Patricia Redden, Saint Peter's University / Joey Ramp, Empower Ability Consulting, LLC / Ashley Neybert, Independence Science

**Moderator:** Partha Basu, Indiana University-Purdue University Indianapolis

[Register for Free!](#)

## What You Will Learn:

- What does the Americans with Disabilities Act cover regarding access rights for service dogs
- How is a service dog selected for certain jobs or disabilities, and what type of training is required
- What types of service dogs exist and what is the process to obtain one

**Co-produced with:** Chemists with Disabilities (CWD) Committee, ACS Department of Diversity Programs, and ACS Diversity, Inclusion & Respect Advisory Board



# Don't panic!

Getting into graduate school  
September 15, 2021 [bit.ly/DP2021In](https://bit.ly/DP2021In)

## THINKING ABOUT GRADUATE SCHOOL? FIVE THINGS TO KNOW

1. There are [diverse opportunities](#) for graduate studies in chemistry, biochemistry, materials science and engineering that are tailored to different careers. These include the [professional science masters](#), the masters degree, and the doctoral degree.
2. Self-assessment is key. The [ChemIDP](#) is a valuable self-assessment tool to evaluate your skills, skill needs, and motivation for graduate study.
3. The [Don't panic! Getting into grad school interactive workshop](#) will demystify the types of graduate programs, their application processes, educational experience and career outcomes.
4. Undergraduate research and/or industrial experience can improve your application, but neither is required for admission to graduate school.
5. Students from underrepresented groups in science may also apply for graduate study via the [ACS Bridge Program](#).

## STUDENT MEMBERSHIP DRIVE

As part of its efforts to improve its climate with respect to the diversity, equity, inclusion and respect (DEI&R), the New York Section is inviting its most diverse population – our students – to join the ACS free of charge. Faculty advisors may apply for up to six complementary ACS student memberships to build or strengthen their student chapters.

[Apply here by September 15, 2021](#)

*This program is supported by a DEI&R grant from the ACS Local Section Activities Committee.*



**Virtual Networking Ice Cream Event  
with Chemistry Professionals & Undergraduates**  
Sunday, September 12 from 2:00 – 3:30 p.m. EDT



Kelley Ciffin  
United States Army Combat  
Capabilities Development  
Command Armaments Center  
(Government)

Tejas Shah  
Research Investigator  
Corteva Agriscience  
(Industry)

Barry Streusand  
Owner, Applied Analytical, Inc.  
(Small Chemical Business)

Dominique Williams  
Biochemistry  
University of Richmond  
(Academia)

[Register Now](#)

The first 25 registrants will receive a special treat!



## MEET CHEMISTRY PROFESSIONALS AT THE VIRTUAL ICE CREAM NETWORKING EVENT

Being held **Sunday September 12, 2021**, this event allows undergraduates and graduates an opportunity to chat one-on-one with chemistry professionals about their career experiences, areas of expertise, alternative careers, and resources.

[More Info](#)

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## Call for Nominations

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

The New York Section is seeking nominations for the following three [Outstanding College Chemistry Teaching 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, 2021**. Candidates need not be members of the ACS. Awardees will be recognized with a major award plaque at the Sectionwide Conference in January 2022. Unsuccessful nominations remain active for three years and updating is encouraged. For more information about the award and the list of former award recipients, please visit the website.

### **RICHARDS MEDAL NOMINATIONS SOUGHT BY THE NORTHEASTERN LOCAL SECTION OF THE AMERICAN CHEMICAL SOCIETY**

Named for the first U.S. chemistry Nobel laureate and given biannually by the Northeastern ACS since 1932, the Theodore William Richards Medal Award honors Conspicuous Achievement in any area of Chemistry. 2017 William H. Nichols Medalist Prof. Chad Mirkin received the last Richard Medal awarded in 2018.

Nominations due **October 31, 2021**.

[More info online](#)

### **ETHICS CHEMLUMINARY AWARD**

The ACS Committee on Ethics wants to promote the visibility of the **Outstanding Local Section Programming Related to the Promotion of Ethics in Chemistry** ChemLuminary Award. Their goal is to increase the amount of local section programming involving ethics and the number of nominations received each year.

Nominations due **February 15, 2022**.

[More info online](#)

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## Call for Volunteers

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### **Volunteer Opportunity for ACS Members Serve as a Virtual Mentor with Students 2 Science!**

Can you spare a few minutes of your time? Would you like to inspire students to pursue STEM college and career paths? Students 2 Science is seeking Virtual Mentors to support its signature remote-learning program, the [V-Lab program](#). As a Virtual Mentor, you will live stream into a V-Lab session and talk to students about where you work, your role, the value of STEM in your company, & the value of STEM for the students' future. It's a wonderful way to give back and requires only a few minutes of time commitment via commonly used virtual platforms.

[Email for more info](#)

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## Jobs Board

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Starting your career or looking for the next challenge? Have a look at the New York ACS [Jobs Board](#) where employment opportunities are posted.

### Director, Chemistry, Volastra Therapeutics

[Apply here](#)

### Sr. Research Scientist I (Associate Director), Process Development, Gilead Sciences

[Apply here](#)

### Tenure-track Assistant Professor of Chemistry (Analytical) at St. John's University

[Apply here by October 1, 2021](#)

### Laboratory Technician at St. John's University

[Apply here](#)

### Sloan Kettering Institute Faculty Recruitment in Chemical Biology

[Apply by October 15, 2021](#)

### Have a position you need to fill?

Email the job posting to [Jobs@NewYorkACS.org](mailto:Jobs@NewYorkACS.org)



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

Ion Chromatography  
KF Aquametry, Titrimetry  
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## CHEMISTRY TEACHERS' CLUB



The Chemistry Teachers' Club and Physics Club of New York will present a series of Zoom talks from September through April.

24 September: Dr. Geoff Raynor-Canham, Grenfell Campus, Memorial University, Newfoundland: "A Novel Course on Women in Science".

8 October: Stephen Cohen, Science and Technical Writer, "Buried Scientific Treasures"

If you are interested, please contact [Dr. John Roeder](#) for Zoom information a week prior to each talk.

## COMMITTEE ON THE HISTORY OF THE NEW YORK LOCAL SECTION

Over the past twenty-three years the New York Section has participated in the designation of seven National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks. A brief description of these National and local section landmarks may be found on the NY Section [website](#) under the Committee on the History of the NY Section. 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 an historic chemical landmark. The Committee on the History of the NY Section will consider all nominations. In addition to a particular achievement, an historic library, building or association may be worthy of this distinction. Please send your nomination, with supporting documentation, to the Chair of the Committee, [Dr. Neil Jespersen](#).



The ACS National Spring Meeting will take place **March 20-24, 2022**, in **San Diego, California**. The meeting will be held in-person and virtual.

[Abstracts due October 11, 2021](#)



## INNOVATIVE PROJECT GRANT AWARDED TO NEW YORK SECTION FOR THE CHEMISTRY OF LOVE

The IPG funds will support a New York Section program entitled 'The Chemistry of Love' to be held on Valentine's Day 2022. Details will follow in a future issue of The Indicator.

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## Grant Opportunities

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### ACS PETROLEUM RESEARCH FUND

Proposals for fundamental research in the petroleum field will be accepted starting on September 20, 2021.

**DUE OCTOBER 15, 2021**

[Learn more](#)

### SCIENCE CAFÉ MINI-GRANTS

Local Sections may request \$500 to host 2022 Science Cafés in their communities.

**DUE OCTOBER 15, 2021**

[Learn more](#)




## NEWS FROM OUR PARTNERS



### PROACTIVE MENTORSHIP AND NETWORKING

This Zoom webinar will focus how to grow and manage your professional network, and as well as manage mentor relationships. Attendees will review mentorship do's and don'ts for effective mentor-mentee relationship and how to find and connect with a mentor through meaningful networking strategies. Attendees will also learn how to be proactive in managing relationships and mentorships in order to benefit their professional career development.

[More detail here](#)



Live Webcast  
**Effective Career Development through Successful Mentor and Network Relationships**  
 Tuesday, September 14, 2021 at 11am EDT | 8am PDT | 4pm BST | 5pm CEST

### Biocatalysis and Protein Engineering Meetup

Three rapid-fire talks on the latest research about new exciting enzymes and biocatalytic cascades.

**Date: September 23, 2021**

Time: 11:00 AM

[RSVP](#)



**CURIOSITY, CHEMISTRY, & PERSEVERANCE**

2021 Eastern Analytical Symposium & Exposition  
**CELEBRATING 60 YEARS OF EAS**

Crowne Plaza Princeton  
 Conference Center  
 Plainsboro, NJ  
**November 15-17, 2021**

**EARLY REGISTRATION DEADLINE – OCTOBER 15, 2021**




**EMBRACING BEAUTY**

*A Celebration of What We Create*

**SUPPLIERS' DAY 2021**

**NOVEMBER 10-11**  
**VIRTUAL DAY: NOV. 12**

JACOB K. JAVITS CONVENTION CENTER  
 NEW YORK CITY

**REGISTER NOW**  
[WWW.NYSCC.ORG/SUPPLIERS-DAY](http://WWW.NYSCC.ORG/SUPPLIERS-DAY)