NATIONAL CHEMISTRY WEEK 2021

Interested in supporting and enhancing science, technology, engineering and mathematics (STEM) education?

Volunteer or participate in National Chemistry Week 2021

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 North Jersey and New York Sections are long-standing participants in National Chemistry Week and each Section is currently planning their activities for NCW 2021 centered around the theme Fast or Slow: Chemistry Makes It Go! Whether as a volunteer or a participant, both Sections can use your help in ensuring that their NCW programs are successful. See the North Jersey Call of Volunteers for the ChemExpo 2021 at the Liberty Science Center on page 4. Also check out the New York Call for Volunteers for their virtual celebration of National Chemistry Week on page 5.
**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](http://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

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**NMR TOPICAL GROUP**

The North Jersey ACS NMR Topical Group will hold its annual “Bruker Night” Thursday **September 23rd** 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.

**Save the Date – Monday October 18, 2021**
Annual Fall Symposium featuring Christian Griesinger, Gerhard Wagner, Lewis Kay, and Matthias Ernst.

Read more here

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**ORGANIC TOPICAL GROUP**
The North Jersey ACS Organic Topical Group proudly presents the 2021 Award for Creativity in Molecular Synthesis Symposium & Award Ceremony on **November 18, 2021**.

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**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. 1st, 2021
Email to: Susan_Zultanski@merck.com
Subject line: NACS poster abstract
Acceptance notification: Sept. 15th, 2021

**SPEAKERS:**
- Professor Stephen L. Buchwald (MIT) 2021 Award Recipient
- Dr. Seble Wagnew Senior Director AbbVie R&D
- Prof. Tianning Diao NYU
- Prof. Marisa Kozlowski UPenn
- Dr. Jingjun Yin Executive Director Merck PR&D
- Prof. David MacMillan Princeton University

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RSVP
CHROMATOGRAPHY TOPICAL GROUP SYMPOSIUM HELD IN JULY

The 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 may be found on the NJACS Chromatography Topical Group website.

NORTH JERSEY ACS HOLDS THEIR VIRTUAL NEW JERSEY CHEMISTRY OLYMPICS

The North Jersey ACS congratulates all the 134 high school students that participated in this year's virtual New Jersey Chemistry Olympics (NJCO) whose theme was Chemistry and Current Events. Eight events that ranged from the Cost of Bringing a Vaccine to Market to Sustainability of Batteries were held on June 1-4. Ten high schools earned medals at this successful event.

Interested in volunteering for the 2022 NJCO or having your high school participate? Contact our Directors, Drs. Kathleen Gilbert and Miriam Gulotta, here.

Read more here

NORTH JERSEY STATE SCIENCE DAY 2021 WINNERS ANNOUNCED

The North Jersey ACS congratulates the high school students that competed in the New Jersey State Science Day. The competition challenged students to define a problem in the community with a focus on its marginalized and/or underserved members, and to design a solution using of science and engineering practices. The event 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 of the eighteen winners, four honorable mentions, and the honored teachers.

Read more here
CHEMEXPO 2021 – CALL FOR VOLUNTEERS
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 Participation]
- [Call for College Students]
- [Call for HS 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]

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”.


If you are interested, please contact [Dr. John Roeder](mailto:Dr.JohnRoeder) for Zoom information a week prior to each talk.
**NATIONAL CHEMISTRY WEEK 2021**

**Call for Volunteers / Participants**

Interested in giving back to the science of chemistry and inspiring young STEM students? The New York Section NCW committee has is currently organizing its National Chemistry Week events for Sunday October 24, 2021 and looking for additional volunteers to help make this year’s program as successful as possible.

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.

For more info

**HUDSON-BERGEN SUBSECTION**

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

*Presented by Dr. Sudeep Banjade*

Cells constantly remodel and recycle their components to maintain homeostasis. The ESCRT (endosomal sorting complexes required for transport) machinery is involved in the formation of multivesicular bodies, cytokinesis, virus budding and membrane repair. This talk will discuss how multivalent interactions in this system helps efficient ESCRT function in yeast organelles.

Tuesday, October 21, 2021
5:30 PM
Virtual via Zoom

**WESTCHESTER CHEMICAL SOCIETY**

**Finding Origins of Life in Ancient Biological Electric Wiring**

*Presented by Prof. Yana Bromberg, Ph.D.*

How did life appear on our planet? Join the Westchester Chemical Society for this seminar that explores the evolution of oxidoreductases and suggests that metal-ion binding structures facilitated the electron transfer reactions.

Wednesday, October 6, 2021
7:00 PM

More info
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.

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

-St Joseph Serafin

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
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.

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Don't panic!

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 ChemiIDP 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.
YOUNGER CHEMISTS COMMITTEE'S CHEMISTRY OF SUMMER VIRTUAL EVENT

The YCC invites all chemists under age 35 to their rescheduled Chemistry of Summer virtual event. Meet and network with your colleagues on September 8th as you dive into the exciting nuances of summer and chemistry, enjoy some fun ice breakers and games, and learn more about the YCC.

Please RSVP here

BIOCHEMICAL TOPICAL GROUP

Redirected Immune Cell Therapies

This full-day symposium explores immune-cell trafficking and immunological signaling; multi-specific 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.

Tuesday, September 14, 2021
10:30 AM – 5:30 PM
Virtual via Webcast

More info

JOBS BOARD

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
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 livestream 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

FREE VIRTUAL CONFERENCE FOR STUDENTS

A Virtual Symposium for Organic Chemists, Analytical Chemists, and Chemical Engineers
Tuesday, November 9, 2021

Our purpose at Pfizer is clear: Achieving breakthroughs that change patients' lives. We realize that means not just attracting the best and brightest talent, but also ensuring our colleagues can thrive in an environment and culture where we champion diversity and inclusion every day.

The symposium will include:
• Perspectives on careers at Pfizer from our leaders
• Pfizer science presentations and an interactive career panel discussion
• Connection with scientists, engineers, and leaders at Pfizer

Interested in presenting your science?
Apply for the opportunity to present your undergraduate, graduate or postdoctoral research and network with Pfizer colleagues.

Championing Diversity and Inclusion Every Day
In partnership with:

No cost to attend. Additional details and application can be found here:
https://forms.office.com/r/RYNS30mSTH
Application deadline: Friday, September 24, 2021

Call for Volunteers

OUTSTANDING COLLEGE CHEMISTRY TEACHING AWARDS CALL FOR NOMINATIONS

The New York Section is seeking nominations for the following three 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.

Deadline for submitting articles for the October issue is September 15, 2021
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. Abstract submission deadline is October 11, 2021.

THIS MONTH IN CHEMICAL HISTORY
Harold Goldwhite,
California State University, Los Angeles hgoldwh@calstatela.edu

Finishing his “Great Books in Chemistry” series, Prof. Goldwhite chronicles Stanislao Cannizzaro’s 1858 “Sketch of a Course in Chemical Philosophy”. He also issues a challenge to us to nominate the greatest 20th century chemistry books. Read more
CHICAGO ACS AWARDS 2021 WILLARD GIBBS MEDAL TO PROF. SHARON HAMMES-SCHIFFER

The Gibbs Medal publicly recognizes “eminent chemists who, through years of application and devotion, have brought to the world developments that enable everyone to live more comfortably and to understand this world better”. Prof. Hammes-Schiffer of Yale University is being honored for her groundbreaking work on the theory of proton-coupled electron transfer (PCET) reactions vital to chemical and biological processes.

Friday, September 17, 2021
7:00 PM via Zoom

Nominate a Colleague
The Northeastern Local Section of the ACS solicits nominations for the Theodore William Richard Medal Award given for Conspicuous Achievement in any area of Chemistry. Nominations due October 31, 2021.

Egg-citing Chemistry: The Chemistry (and a little bit of biology) of Eggshells
Presented by the Connecticut Valley and New Haven ACS Sections
Tuesday, October 26, 2021
7:00 PM

Service Dogs In Your Chemistry Lab
Presented by the ACS Chemists with Disabilities Committee, ACS Department of Diversity Programs and ACS Diversity, Inclusion & Respect Advisory Board.

Wednesday, September 22, 2021
2:00 PM

Nominate a Colleague

Egg-citing Chemistry: The Chemistry (and a little bit of biology) of Eggshells
Presented by the Connecticut Valley and New Haven ACS Sections
Tuesday, October 26, 2021
7:00 PM

Service Dogs In Your Chemistry Lab

Date: Wednesday, September 22, 2021 @ 2:00 pm ET
Speaker: Patricia Redden, Saint Peter's University / Joey Ramps, Empower Ability Consulting, LLC / Ashley Noyes, Independence Science
Moderator: Farahia Banu, Indiana University-Purdue University Indianapolis

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.

Registration Link
**NEWS FROM OUR PARTNERS**

**PROACTIVE MENTORSHIP AND NETWORKING**

This Zoom webinar will focus on 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

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**Biocatalysis and Protein Engineering Meetup**

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

September 23, 2021
11:00 AM

RSVP

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**EARLY REGISTRATION DEADLINE – OCTOBER 15, 2021**
Call for Nominations

OUTSTANDING LOCAL SECTION PROGRAMMING RELATED TO THE PROMOTION OF ETHICS IN CHEMISTRY CHEMLUMINARY AWARD

The ACS Committee on Ethics committee encourages local section programming involving ethics and nominations for the Ethics ChemLuminary Award.

Learn More

NATIONAL ACS AWARDS

Nominate a peer or colleague for a 2023 ACS National Award. With awards across many technical fields, education, service, industry & more, there is an award for everyone.

NOMINATIONS DUE NOVEMBER 1, 2021

Learn More

DIVISION OF ANALYTICAL CHEMISTRY AWARDS

The Division of Analytical Chemistry seeks nominations for the following awards:

- Award in Chemical Instrumentation
- Award in Electrochemistry
- Award in Spectrochemical Analysis
- The J. Calvin Giddings Award for Excellence in Education
- The Arthur F. Findeis Award for Achievements by a Young Analytical Scientist (Sponsored by Altria)
- The Satinder Ahuja Award for Young Investigators in Separation Science
- The Roland F. Hirsch Award for Distinguished Service in the Advancement of Analytical Chemistry

NOMINATIONS DUE NOVEMBER 1, 2021

Learn More

Grants & Opportunities

MEMBER ENGAGEMENT THROUGH TECHNOLOGY (METT) GRANT AWARDED TO FAIR for EMERGING RESEARCHERS

This METT grant supports the Fair for Emerging Researchers (FER) program along with the North Jersey ACS. This ChemLuminary Award winning annual science fair is held for middle school students in the NY/NJ/MD area. FER provides a Project-Based Learning approach and targets students in underserved communities.

Email for more info

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.

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

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