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THE Indicator

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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

September 2025	August 16, 2025
October 2025	September 16, 2025
November 2025	October 16, 2025
December 2025	November 16, 2025
January 2026	December 16, 2025

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THIS MONTH IN CHEMICAL HISTORY

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

In rearranging my chemistry books recently I came across a textbook I had forgotten – I have no idea how or when it had been purchased. It is a "Brief Textbook of Inorganic Chemistry" by Hermann Kolbe, published in 1877 when he was Professor of Chemistry at the University of Leipzig. My copy has been rebound in a sturdy library binding some time in the twentieth century. There is an owner's stamp: C. F. Chandler, and also an impression for The Chemist's Club.

Hermann Kolbe, (1818 – 1884}, the author of this text , is best known as an organic chemist. He worked with Wohler and Bunsen and with a fellow student of Bunsen's, Edward Frankland, spent some time in England with Playfair. While working on methods to prepare free radicals he developed electrolysis of carboxylate salts, Kolbe electrolysis. Later in his career he invented the term synthesis for his work in converting carbon disulfide to acetic acid, another milestone in the decline of the vitalism doctrine of organic compounds. Kolbe also discovered a new method of synthesizing salicylic acid.

To historians of chemistry Kolbe is perhaps best known as the Editor of the Journal for Practical Chemistry where he used his editorials to cast scorn on a number of theoreticians most notably van't Hoff for theories of spatial arrangements of atoms – the stereochemistry of quadrivalent carbon- but also Kekulé for his benzene structure, and Baeyer for nomenclature reform.

The Brief Textbook of Inorganic Chemistry is a small print volume of some 680 pages plus a comprehensive index and a plate of the visible emission spectra of a dozen elements including the alkali and alkaline earth elements. The numerous in-text illustrations show practical preparations and analytical methods. For instance in a discussion of sulfur dioxide (b.p. -8^{o}C, m.p. -70^{o}C) the illustration shows a flask containing copper foil reducing boiling sulfuric acid to generate pure sulfur dioxide collected in a mercurial pneumatic trough.

Without the organizing principle of the yet-to-be published Periodic Table the contents of this text are organized in a way that looks back almost a century to Lavoisier's seminal Textbook of Chemistry – non-metals followed by metals. Initial chapters on oxygen, with an atomic weight of 16 (it is 1877, well after 1860 and the revisions of atomic weights initiated by Cannizzaro); and hydrogen are followed by chapters on the halogens. Fluorine, atomic weight 19, "has such a strong chemical affinity that it has not yet been possible to isolate it." However the chemical character of its compounds puts it in a family with chlorine, bromine, and iodine.

Then come the elements of the sulfur group – selenium and tellurium. The histories of the discovery and isolation of these elements is briefly summarized and the chemistry of some of their derivatives is given. At the time of publication very little was known of tellurium and I opine that the same is true today for most of us.

Nitrogen and its congeners come next. It is noteworthy that simple nitrogen compounds such as ammonia and hydroxylamine are included, but we are still a decade before Curtius prepares hydrazine salts and two decades before de Bryun isolates pure hydrazine. The explosive nature of nitrogen trichloride and nitrogen triiodide are duly noted with cautionary

THIS MONTH IN CHEMICAL HISTORY (continued)

language. The oxides and oxyacids of nitrogen are given a clear and extended description. Phosphorus and arsenic each get a substantial chapter. Two forms of elemental phosphorus are known, white and red, of very different chemical behaviors, The white is a low melting solid, spontaneously flammable in air. The red is insoluble in solvents, like carbon disulfide, that dissolve the white form. It is high melting and is stable in air. Phosphorus and arsenic both exhibit valencies of 3 and 5, notably in their chlorides.

I could go on expounding about the chapters on the metals. Suffice it to say they are clear and complete, But having said that what are we to make of this volume as a textbook? As a brief encyclopedia of the facts and figures of inorganic chemistry it is admirable, but as a textbook what is a student to make of it ? There is no pedagogic framework. Nothing to distinguish between trivia and essentials. I don't wish to denigrate Kolbe. This text is typical of its time. Mid- and late-nineteenth century chemistry texts are cut from the same cloth; arrays of facts without guiding principles. I need to go back to my bookshelves to find out where the change occurs when textbooks really became useful guides to the field rather than miniature encyclopedias.

June Calendar

NORTH JERSEY SECTION

Thursday, June 5, 2025
NMR Topical Group
See page 13

Saturday, June 7, 2025
Chinese American Chemical Society
Click here for more information

Wednesday, June 18, 2025
Executive Committee Meeting
See page 13

Tuesday, June 24, 2025
Mass Spectrometry Discussion Group
See page 14

NEW YORK SECTION

Monday, June 9, 2025
New York ACS Board of Directors Meeting
See page 5

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NEW YORK SECTION MEETINGS

http://www.newyorkacs.online

2025 BOARD MEETING DATES

The New York ACS Board of Directors meetings dates for 2025, are, as follows:

Monday, June 9, 2025 (virtual)
Monday, September 8, 2025 (virtual)
Monday, November 3, 2025 (hybrid)

Prof. Eric Chang will Chair all meetings.
The meetings will start at precisely 6:30 PM.

ADVERTISE IN THE INDICATOR

Do you need to reach over 6,000 chemists in the tri-state area to inform them of your products/services to grow your business?

The Indicator offers an affordable option for your marketing campaign – a ¼ page full-color advertisement costs only $200 / month ($1500/yr). Your ad can be published within two-weeks of receipt. Your advertisement will be seen on the first of the month by each member of the New York and North Jersey ACS. Semimonthly emails to these memberships will also include your advertisement ensuring full coverage of your potential clients

CELEBRATING FIFTY-, SIXTY-, AND SEVENTY-YEAR MEMBERS

On behalf of the The American Chemical Society's New York Section Senior Chemists Committee and Board, we would like to acknowledge and congratulate all our local members that have reached their 50-, 60-, and 70- year member anniversary in 2025! National ACS offers their robust congratulations and sincere gratitude to the following members for their many years of service and dedication to the chemical sciences. The Senior Chemists Committee is planning to offer an awards luncheon sometime around early October. We will notify the anniversary recipients by email once the location and date has been decided.

Fifty-Year Members

Mr. Mohammad Javaid Akhtar
Dr. Kathleen Mary Barkigia
Dr. Henry C. Brenner
Ms. Aleksandra Buchman
Mr. Charles W. Castanza
Dr. Arthur Joseph L. Cooper
Mr. Kris Steven Dahms
Mr. Michael Allen Epting
Mr. William H. Hersh
Dr. Joseph Martin Jasinski
Dr. Lawrence Kobilinsky
Mr. Clifford Lester
Dr. Vladimir Macko
Ms. Nadia. Makar
Mr. Howard L. Mark
Mr. Joseph Montalto
Mr. R. Ravichandran
Mr. Charles Joseph Rose
Dr. George Wiliam Schriver
Dr. Dale E. Sharp
Dr. Barry Siskind
Mr. Erving Allen Trunk
Dr. Mary Lou Snow Wolff

Sixty-Year Members

Dr. Diana C. Bartelt
Dr. Suse B. Broyde
Dr. Lovji Dadi Cama
Dr. Laura Bertani Dziedzic
Dr. Chester T. Dziobkowski
Dr. Anthony A. Galitsis
Mrs. Lenny Michelle Grefig
Mr. Pedro Antonio lbarbia
Dr. Richard Leslie Karpel
Dr. Joseph Solomon Krakow
Dr. Dominick Anthony Labianca
Mr. Steven Ira Lerman
Dr. Roger David Arno Lipman
Dr. Herand M. Markarian
Mr. Wesley Adams McCullough
Dr. Dong H. Park
Dr. Ken lchi Shimazu
Dr. William George Valance
Dr. John Peter Wasacz
Mr. Sherman W. White
Dr. Milton Honig
Dr. Lynne Richards
Dr. P. Somasundaran
Mr. Murray Steinfink

Seventy-Year Members

Mr. William Charles Barringer
Dr. Francis Thomas Jones
Dr. Thomas Joseph Katz
Dr. Edwin Arnold Peets
Dr. D.V. Siva Sankar
Dr. Robert Coral Tripp
Mr. Albert Hirschberg
Mr. Howard Roth
Mr. Robert Chodosch

DR. MARIE MAYNARD DALY AWARD : CALL FOR NOMINATIONS

Call for 2026 Inaugural Nominations

Dr. Marie Maynard Daly Award

Presented by the New York ACS Local section

To honor excellence in chemists and chemical engineers from underrepresented racial and ethnic groups

ACS Local Section New York

This annual award recognizes and honors **outstanding active professionals** in the fields of **chemistry and chemical engineering** who are high achievers in research careers in academic, industrial or government settings, and who identify as **Black** (African ancestry), **American Indian, Hispanic, Latino, Native of Alaska, Hawaii or other US Pacific Islands**. The awardee's career path to excellence should serve as an inspirational model for K-12 students, college students and early to mid-career scientists from similar backgrounds.

Nominees need to be active professionals in the United States or United States Territories as well as members of the American Chemical Society in good standing.

Nomination package (nominator's form, nominee CV, and two recommendation letters) should be sent as a single PDF to: Daly-award@newyorkacs.org

Deadline: June 2nd, 2025

About Dr. Marie M. Daly

In 1947 Dr. Marie M. Daly became the first Black woman to receive a PhD in chemistry in the United States (Columbia University). In addition to her outstanding research in the field of Biochemistry (proteins, sugars, and cholesterol) she helped support programs to advance diversity in the chemistry profession. Learn more by watching this NYACS produced video

NEW YORK SECTION AWARDS CERTIFICATES OF EXCELLENCE

The New York Section honors the following college students for their academic excellence in the field of chemistry. We wish them well in all their future pursuits.

More info online

Emily Diproperzio
Adelphi University

Megan Shih Kwen Jen
Barnard College

Erika Relyea
Hunter College – CUNY

Nehi Mani
Columbia University

Mary Herrera
Iona University

Sonia Jong
Hunter College - CUNY

NEW YORK SECTION AWARDS CERTIFICATES OF EXCELLENCE (continued)

Caroline O'Connor
Columbia University

Marielle Ann Kudera
City College of New York – CUNY

Kristen Benes
Pace University

Besime Aslan
New Jersey City University

Trenyce Scott
St. Thomas Aquinas College

Salomee Khawja
NYC College of Technology – CUNY

Justin Wong
Pace University

Pui Yung Lee
Queens College – CUNY

Morgan E. Amos
Pace University

NEW YORK SECTION AWARDS CERTIFICATES OF EXCELLENCE (continued)

Yehoshua Feierman
Queens College – CUNY

Ieesha Ansar
Queensborough Community College – CUNY

Melodie Cadichon
SUNY – Old Westbury

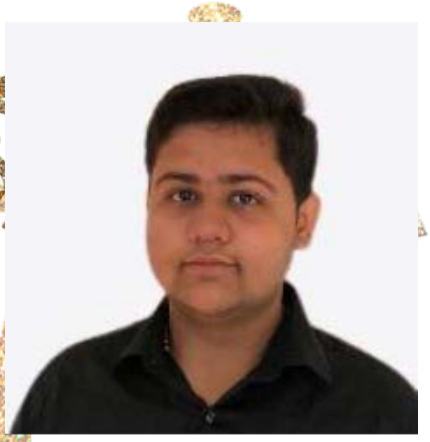
Elizabeth Lee
Queensborough Community College – CUNY

J. Anah Portorreal
City College of New York – CUNY

Richard Alexander Black
St. Thomas Aquinas College

Joseph Orenstein
SUNY – Old Westbury

Zain Zaidi
Stony Brook University



Karan Trivedi
Stony Brook University

NEW YORK SECTION AWARDS CERTIFICATES OF EXCELLENCE (continued)

The New York Section honors the following college students whose pictures were not received in time for publication in this issue.

Anna L. Acevedo	Pace University - Pleasantville
Isabelle Bautista	Saint Peter's University
Yessica Ramirez	Saint Peter's University
Faria Rahman Oyshi	Adelphi University
Frances Cohen	Barnard College
David Boone	Hofstra University Department of Chemistry
Elpida Hatzidimitriu	Hofstra University Department of Chemistry
Jordan O'Malley	New York University
Derek Cabera	New York University
Aliyah Rojan	St. Francis College
Matthew Melada	Stevens Institute of Technology
Hadia Hussain	Stevens Institute of Technology
Robert Tipaldi	Wagner College
Elana S Rosenblatt	Yeshiva University, Stern College
Liat H Polinsky	Yeshiva University, Stern College
Metka Kunstelj	St. John's University
Emily Caldwell	St. John's University
Ubaidullah Hassan	The Cooper Union

2025 FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM

Save the date

PFAS – Forever Chemicals or Solvable Crisis?
Detection Methods, Harmful Effects, and Cleanup Strategies
for Polyfluoroalkyl Substances

Saturday, November 8, 2025
Hofstra University

The Frances S. Sterrett Environmental Chemistry Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. The symposium is organized by members of the Long Island Subsection of the American Chemical Society (LIACS) and cosponsored by the New York Section of the American Chemical Society (NYACS). For further information contact Dr. Ronald P. D'Amelia (ronald.p.damelia@Hofstra.edu) at 516-463-6278 or Dr. Paris Svoronos (psvoronos@gmail.com) at 718-631-7695.

Date: Saturday, November 8, 2025
Time: 9:00AM – 3:00PM (tentative)
Place: Berliner Hall, Room 117
Hofstra University
Hempstead, NY 11549 or
via Zoom
Register (required) here today!

NORTH JERSEY SECTION MEETINGS

2025 NORTH JERSEY ACS EXECUTIVE COMMITTEE MEETINGS

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

Wednesday, June 18, 2025 (hybrid) **Wednesday, October 15, 2025** (hybrid)
Wednesday, September 10, 2025 (hybrid) **Wednesday, November 12, 2025** (virtual)
2026 Planning Meeting in December, TBD

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

The Indicator is posted to the web on the 1ST of each month September-June
http://www.theindicator.org/

NORTH JERSEY NMR TOPICAL GROUP

LC-Photo-CIDNP: a gateway to hypersensitive NMR spectroscopy

Speaker: **Professor Silvia Cavagnero**
Department of Chemistry and Biochemistry
University of Wisconsin-Madison
Date: **Thursday, June 5, 2025**
Time: 12:00 PM EST
Location: MS Teams

Download flyer here
Register here

Abstract :Liquid-state low-concentration photochemically induced dynamic nuclear polarization (LC-photo-CIDNP) is an emerging technology capable of enhancing the sensitivity of NMR spectroscopy via LED-mediated optical irradiation. LC-photo-CIDNP enables the detection of solvent-exposed aromatic residues in isolation and within polypeptides and proteins. This presentation will focus on describing how unlabeled small molecules and amino-acid isotopologs bearing quasi-isolated spin pairs (QISP) either as free species or within proteins lead to un-precedented nuclear-spin hyperpolarization due to both dark (LED-off) and light (LED-on) effects. The magnetic-field dependence of LC-photo-CIDNP of biomolecule (within the high-field regime) is particularly interesting, and will be described in the context of low-field NMR and field cycling. Large enhancement factors (e.g., 1,200) were obtained at 50 MHz (1.18 T), suggesting exciting avenues to explore the early and late stages of protein folding and aggregation in physiologically relevant environments at high sensitivity.

NORTH JERSEY MASS SPECTROMETRY DISCUSSION GROUP

Unraveling O-glycosylation patterns with mucinases and mass spectrometry

Expanding the frontier of discovery - omics: Acquisition strategies using ZenoTOF systems.

Speakers: **Tomislav Caval**
Senior Scientists, Regeneron

David Colquhoun
Marketing Develoment Manager - Biomarker Research, SCIEX

Date: **Tuesday, June 24, 2025**
Time: 5:30 – 9:00 PM EDT
Location: Somerville Elks Lodge 1068

Register here

Abstract 1: Aberrant O-glycosylation is gaining traction as a potential target in immuno-oncology. The presence of a single O-GalNAc residue (Tn antigen), considered a neoantigen, has emerged as a prime target. However, due to their low immunogenicity, targeting glycans remains a challenge. To address this, approaches targeting Tn-carrying glycoproteins have been developed. Identifying potential proteins modified by the Tn antigen and the exact sites of modification remains challenging. In this talk we explore mass spectrometry approaches combined with recently described mucinase enzymes to elucidate O-glycosylation patterns on select recombinant O-glycoproteins, opening avenues for future O-glycoprotein target discovery and characterization.

Abstract 2 : Mass spectrometry acquisition strategies play a pivotal role in shaping the performance of omics workflows. Data-Dependent Acquisition (DDA) supports discovery-driven studies, while Data-Independent Acquisition (DIA) offers improved reproducibility and broader coverage. ZT Scan DIA is an innovation that enhances sensitivity, enabling detection of low-abundance analytes. For targeted analysis, MRMHR delivers precise quantification with high specificity. Each strategy aligns with distinct research objectives, from untargeted profiling to hypothesis-driven validation. As experimental needs grow more complex, the integration of multiple acquisition modes is increasingly essential for generating comprehensive and reliable omics datasets. This work will highlight each of these approaches and demonstrate the flexibility of ZenoTOF systems to achieve these research goals.

MEETING REPORTS

WESTCHESTER DISTINGUISHED SCIENTIST AWARD

The 2025 Distinguished Scientist and Student Achievement Awards Presentation and Dinner was held by the Westchester Chemical Society on Thursday, April 24, 2025, at Pace University in Pleasantville, NY. During the social hour, attendees signed in and mingled in the Steven Friedman Room of Wilcox Hall. Dr. Mary Virginia Orna, a past president of the New York Local Section of the American Chemical Society and a board member of the Westchester Chemical Society, introduced and presented the 2025 Distinguished Scientist Award to Dr. Rolande Hodel. Dr. Hodel has worked in the pharmaceutical industry and taught for eleven years as an adjunct professor at Westchester Community College. She has also served the Westchester Chemical Society as Director, Treasurer and Chair from 1995 to 2025. Dr. Hodel is the President and Founder of AIDSfreeAfrica. Wearing the traditional colors and dress of Cameroon, where much of the efforts of AIDSfreeAFrica are located, Dr. Hodel talked about her history and the history of AIDSfreeAFRICA, but especially spoke about the past and ongoing challenges, including cultural differences, to bringing local drug production to the Sub-Saharan Africa region which has been overwhelmed by the spread of AIDS. For example, following stellar results, Gilead signed six licensing agreements to produce Lenacapavir in countries around the world but not one was in Sub-Saharan Africa. She concluded her talk with the current and tireless efforts to reach the AIDSfreeAFRICA goal of bringing drug production to the that area. Several colleagues of Dr. Hodel from AIDSfreeAfrica and other organizations were present at the event. You can watch her presentation on YouTube here.

Dr. Rolande Hodel (left) being presented the Westchester Distinguished Scientist Award by Dr. Mary Virginia Orna

Dr. Rolande Hodel presenting her Westchester Distinguished Scientist Award address.

WESTCHESTER DISTINGUISHED SCIENTIST AWARD (continued)

Westchester Chemical Society Student Achievement Awardees

After Dr. Hodel's talk, Dr. Peter Corfield, Westchester Chemical Society's Education Chair/ Treasurer, presented the Student Achievement Awards for 2025 to the following awardees:

Ellie Snyder, Fordham University; Faculty Advisor: Christopher Koenigsmann
Cherilyn Hu, New York University; Faculty Advisor: Marc A. Walters
MacKenzie McCallum, Iona University; Faculty Advisor: Kelly Daggett-Nemesh
Benjamin Mass, Pace University, Pleasantville; Faculty Advisor: Irina Gazaryan
Christian Quintana, Westchester Community College; Faculty advisor: Jody Reifenberg
Jada MacKinnon, Manhattanville College; Faculty Advisor: Darlene Gandolfi (in absentia)
Edie Epstein, Purchase College, SUNY; Faculty Advisor: Elizabeth Middleton (in absentia)
Edward Novodnorski, New York University; Faculty Advisor: Marc A. Walters (in absentia)
Zahra Sadoughi, Edgemont High School; Faculty Advisor: Talia Dardis
Jeff Schubert, Lincoln High School; Faculty Advisor: Sunitha Howard
Frank Murphy, Ossining High School; Faculty Advisor: Angelo Piccirillo
Michael Talbott, Rye High School; Faculty Advisor: Sally Mitchell
Haley Berger, Briarcliff High School; Faculty Advisor: Shaniece Mosley (in absentia)

WESTCHESTER DISTINGUISHED SCIENTIST AWARD (continued)

All student awardees received a certificate of their accomplishment and the awardees who were present were given a copy of the book "March of the Pigments" by Dr. Mary Virginia Orna (who was available for autographs). After the award ceremony, a buffet-style dinner was served with chicken marsala and vegetarian lasagna as the main courses. At this time, attendees could speak with the awardees and read through the four research posters which were on display from Louis Class and Ahmed Elsayed from Fordham University ("Ongoing Studies on Copper-Cyanide Networks"), Christian Quintana from Westchester Community College ("Expression of Paxcillin, Zyxin, and Moesin in Axonal Growth Cones of Embryonic Chick Primary Neurons"), Frank Murphy from Ossining High School ("Development of tetrahydro-beta-carbolines as a Novel Class of Anticancer Agents for the Treatment of Liver Cancer") and Michael Talbott from Rye High School.

Congratulations to the 2025 Distinguished Scientist for the Westchester Chemical Society, Dr. Rolanda Hodel, and all the student achievement awardees. The Westchester Chemical Society thanks the Dyson College of Arts and Sciences at Pace University for co-sponsoring the event and all the attendees who joined us for this great event.

Deadline for submitting articles and advertisements for the September 2025 issue is August 16, 2025

SEMINAR SPEAKERS WANTED

The New York Section wants to add 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 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!

COMMITTEE ON THE HISTORY OF THE NEW YORK LOCAL SECTION

The New York Section has participated in the designation of seven National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks, as detailed on its website. These landmark programs recognize achievements in the chemical sciences and related areas, in order to enhance public appreciation for the contributions of the chemical sciences to modern life.

Please consider making a nomination for a historic chemical landmark - be it an achievement, a building or association. Send your nomination, with supporting documentation, to Dr. Neil Jespersen, Chair, Committee on the History of the NY Section.

US NATIONAL CHEMISTRY OLYMPIAD – NEW YORK ACS

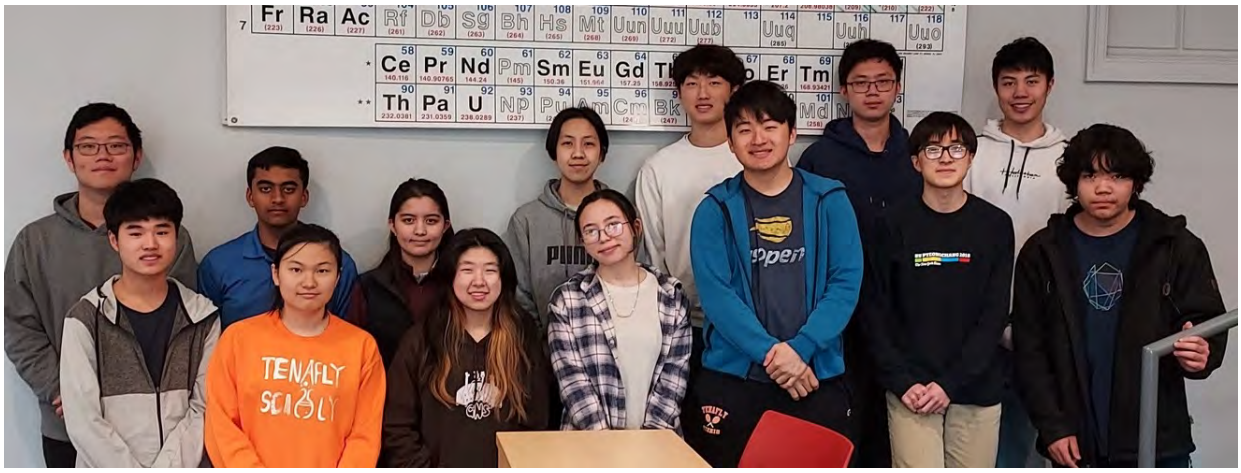
Contributed by Stephen Z. Goldberg, Professor Emeritus, Adelphi University, Chair NYACS Olympiad Committee

The New York Section participated in the 2025 United States Chemistry Olympiad (USNCO). The local exam was administered in high schools during the testing window of March 1-23, and a total of 521 students from 77 high schools took the exam. The New York Section extends special thanks to the high school teachers who administered the exam and provided the opportunity for their students to participate in the USNCO.

On April 6 Iona University in New Rochelle hosted 14 high scorers from the New York Section for the three-part National Exam. One high scoring student from the New York Section took the National Exam with the Northeastern Section.

We congratulate all 15 outstanding students and their teachers. The teachers who mentored these students are Mrs. Pooja Bansal (New Hyde Park Memorial High School), Mrs. Maura Callahan (Syosset High School), Dr. Robert Colascione (Cold Spring Harbor High School), Ms. Anat Firnberg (Tenafly High School), Ms. Wendy Ganz (Lakeland High School), Dr. Philip Jeffery (Hunter College High School), Ms. Courtney Knacke (William A. Shine Great Neck South High School), Dr. Marnie Kula (Ward Melville High School), Mr. Gary Ramonetti (Roslyn High School), Dr. Megan Reesbeck (Horace Mann High School), Mrs. Halina Reinhardt (William A. Shine Great Neck South High School), Dr. Mrinalni Sharma (Hunter College High School), Mr. Harish Yerramsetty (Jericho High School).

Special congratulations to two students, Anna Xing (Ward Melville High School) who earned high honors and Alice Kim (William A. Shine Great Neck South High School) who earned honors. Additionally, we note with pride that Anna Xing is one of 20 students nationwide who has been invited to attend the USNCO Study Camp.



Back row left to right: Clayton Yu (New Hyde Park Memorial High School), Abhilash Jagannathan (Lakeland High School), Anyi Sharma (Horace Mann High School), Melody Luo (Hunter College High School), Matthew Lin (Roslyn High School), Jixuan (Jason) Zhang (William A. Shine Great Neck South High School), Winston Zhou (Syosset High School)

Front row left to right: Ryan Tae (Jericho H.S), Hillary Xie (Tenafly High School), Alice Kim (William A. Shine Great Neck South High School), Ariana Lye (Syosset High School), Joe Kuwarma (Tenafly High School), Kai Tse (Hunter College High School, Warren Wei (Cold Spring Harbor High School)

Not Shown: Anna Xing (Ward Melville High School)

US NATIONAL CHEMISTRY OLYMPIAD – NORTH JERSEY ACS

Contributed by Bettyann Howson, NJACS Education Chair

The United States National Chemistry Olympiad (USNCO) national chemistry test competition was completed at the end of April. ACS has announced the top 150 students across the country who have achieved the distinction of High Honors and Honors. Congratulations to the following members of the North Jersey ACS who have earned this distinction:

Jai Dave	West Windsor High School North	High Honors
Daniel Leopold	Montgomery High School	Honors
Kaden Luo	Ridge High School	Honors
Yichen Tang	Livingston High School	Honors
Berkay Yilmaz	John P. Stevens High School	Honors

North Jersey ACS is proud of the 16 national team members and the teachers who encouraged and guided them in the competition. The section thanks all 473 students and 41 teachers who supported the 2024-2025 Chemistry Olympiad program.

2025 NORTH JERSEY ACS CHEMISTS CELEBRATE EARTH WEEK ILLUSTRATED POEM CONTEST WINNERS!

North Jersey ACS is pleased to announce the winners of the 2025 North Jersey ACS Section Chemists Celebrate Earth Week (CCEW) Illustrated Poem Contest!

Shown below is the local winner: Middle School (Grade 6 – 8): Eloise H., South Orange Middle School.

Shown at right is the national winner: High School (Grades 9-12): Maria L.

Glaciers

Great castles of ice are being sucked up
And poured into a small money cup.
We take from a home to build industries
We exchange profit for rising degrees.
For who really cares what happens at seas?

CALL FOR NOMINATIONS

FACULTY – HONOR YOUR STUDENTS & POSTDOCS

Division of Organic Chemistry Undergraduate Award
Due June 18

Division of Physical Chemistry Undergraduate Award
Due June 15

ACS Division of Inorganic Chemistry Undergraduate Award in Inorganic Chemistry
Nominations due June 30

Graduate Student and Postdoctoral Scholars Recognition Program
Nominate by June 16

Division of Analytical Chemistry Undergraduate Award
Nominate by July 1

Pfizer Emergent Leader Award
Apply by July 15

OPPORTUNITIES

For High School Students & Teachers

ACS–Hach High School Chemistry Classroom Grant

Due June 1

For Undergraduates

ACS Undergraduate Award in Physical Chemistry

Due June 15

Graduate Student and Postdoctoral Scholars Recognition Program

Due June 16

ACS Organic Division Undergraduate Awards

Due June 17

Undergraduate Award in Inorganic Chemistry

Due June 30

Undergraduate Award in Analytical Chemistry

Due July 1

For Graduate Students / Postdocs

Women Chemists Committee/Eli Lilly Travel Award

Due June 1

Division of Inorganic Chemistry Travel Award

Due June 15

Graduate Student and Postdoctoral Scholars Recognition Program

Due June 16

Arnold O. Beckman Postdoctoral Fellowship

Letter of Intent due September 5

For Professionals

Women Chemists Committee Rising Star Award

Due June 15

Paul J. Flory Polymer Education Award

Due July 1

Pfizer Emergent Leader Award

Due July 15

Industrial Polymer Scientist Award

Due July 31

JOB BOARD

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

Academic Positions

Visiting Assistant Professor of Chemistry – University of Mount Saint Vincent
Apply here

Clinical Assistant Professor of Chemistry – Yeshiva College
Apply here

College Laboratory Technician (Chemistry and Biochemistry) – Brooklyn College
Apply here

Visiting Assistant Professor of Chemistry – Widener University
Apply here

Adjunct Faculty Pool, Science – Fashion Institute of Technology
Apply here

Tenure-Track Assistant Professor in Chemistry – The Cooper Union
Apply here

Fulltime Tenure Track Faculty in Chemistry – Quinnipiac University
Apply here

Visiting Assistant Professor of Chemistry – Union College
Apply here

Visiting Assistant Professor of Chemistry – Haverford College
Apply here

Tenure-Track Assistant Professor of Chemistry – St. Joseph's University
Apply here

Associate Dean, School of Natural and Behavioral Sciences – Brooklyn College
Apply here

Vice President, Science Visualization and Public Engagement – American Museum of Natural History
Apply here

Industrial Positions

Chemist I – Odin Pharmaceuticals
Apply here

Paints & Chemicals Inspector – WSP
Apply here

Associate Principal Scientist, Chemistry – Merck
Apply here

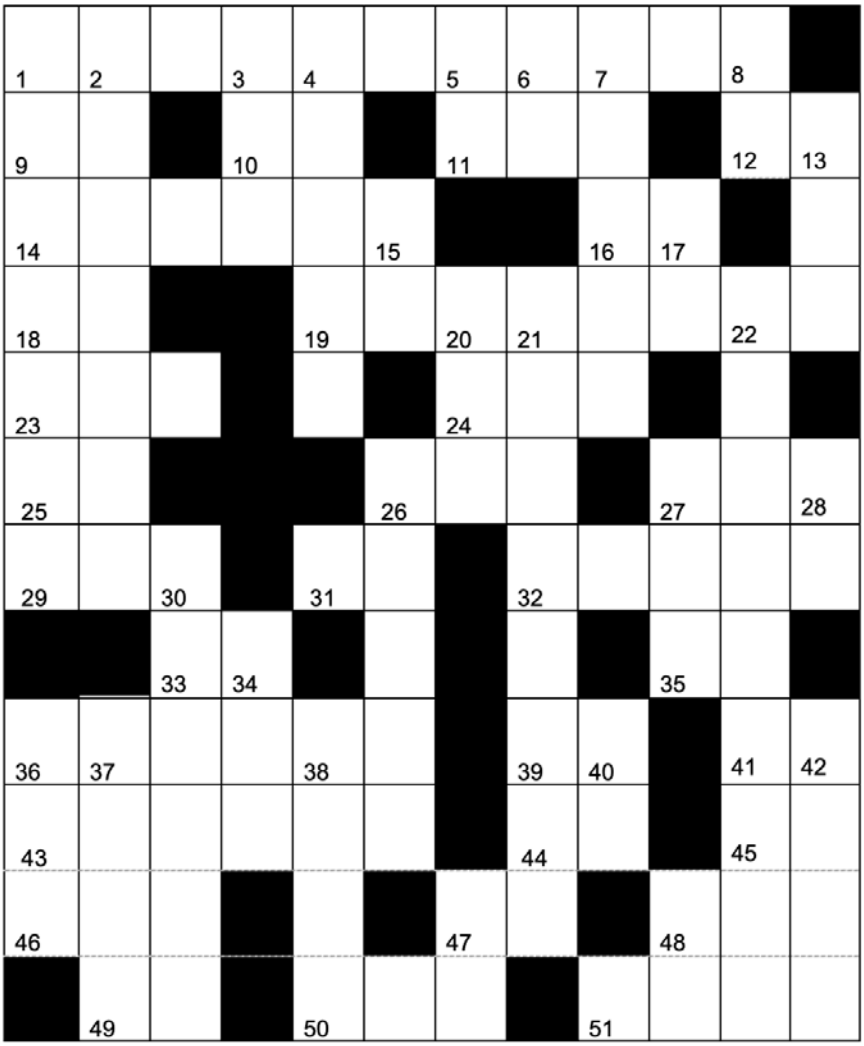
Principal Scientist, Peptide Computational Chemistry – Merck
Apply here

Director, Translational Bioinformatics, Daichi-Sanyo
Apply here

Senior Scientist, Formulation Development – Regeneron
Apply here

CROSSWORD PUZZLE

Contributed by Dr. Paris Svoronos and Jun Shin



ACROSS

1 The dehydration of an alcohol is such an energy resulting process.
9 Metal used in the Birch reduction
10 Region of the electromagnetic spectrum that lies between 400-4000cm^{-1}
11 Prefix indicating one.
12 Element atomic number 75
14 Property indicating no electric dipole moment
16 First element in group VI of the periodic table
18 Element atomic number 25
19 Polymerization product of chloroprene
23 One of sulfur anion oxidation suffices
24 Prefix of the pentane isomer that shows a singlet in ^{1}H NMR
25 State where Dartmouth University lies (postal code)
26 Synonym of moist
27 Alkanes' name ending
29 Human organ sensitive to sound
31 Most abundant noble gas in the earth's atmosphere
32 Negatively charged ion
33 Element atomic number 76
35 LINUX command for "remove"
36 Family of proteins found in mammalian milk

CROSSWORD PUZZLE (continued)

ACROSS

39 Element atomic number 70
41 Lanthanide atomic number 63
43 Signal that can be electronic or structural
44 Element atomic number 73
45 Shorthand notation for a row of cells in an HTML table
46 Short form name for Leonard
47 Same as 12 across
48 Honey producing insect
49 Element whose name is a derivative of the Greek word for moon
50 Addition prefix of an alkene hydrogenation reaction
51 Prefix indicating one trillion

VERTICAL

1 The product of the reaction between an aldehyde or ketone and a secondary amine
2 Flammable liquid hydrocarbon
3 Alternative word for petroleum
4 Geometric isomer that is opposite of cis
5 Same as 42 across
6 Radioactive noble gas
7 Prefix indicating one millionth
8 Element atomic number 24
13 Suffix indicating a double bond
15 Same as 12 across
17 Same as 12 across
20 Ending of every ketone
21 Computer unit measurement holding 1000 terabytes
26 Opposite of right
27 Gaseous substance surrounding the earth
28 Noble gas (reversed)
29 Tricyclic hydrocarbon of molecular formula $C_{20}H_{36}$
34 Schweitzer Engineering Laboratories initials
36 Energy unit equaling 4.18 joules
37 Ending of all alkanes (plural)
38 Cations and anions are
40 Element atomic number 56
42 Organic compound that is a urine component
47 Same as 6 vertical
48 Alkaline earth metal

Last month's solution