2023 William H. Nichols Medalist
Professor Karen I. Goldberg

Professor Karen I. Goldberg of the University of Pennsylvania (bio) will be presented with the 2023 William H. Nichols Medal at a distinguished symposium in her honor on Friday, April 14, 2023 (program). Prof. Goldberg is being honored for pioneering work in organometallic reaction mechanisms. The in-person symposium starts at 1:00 PM ET and is entitled, as follows:

Catalysis for a Sustainable Future

The following luminaries will present their work at the distinguished symposium:

Organometallic Chemistry of High Valent Late Transition Metals
Professor Melanie Sanford, University of Michigan

Development of New First-Row Metal FOX Complexes for Alcohol Dehydration
Professor William Jones, University of Rochester

Catalytic Dehydrogenation of Alkanes by Transition Metal Complexes
Professor Alan Goldman, Rutgers – The State University of New Jersey

Selective C-H Bond Activation of Alkanes: Collaborating with Nature to Develop Sustainable Chemistry
Professor Rachel Narehood Austin, Barnard College

Molecular Oxygen as a Reagent in Late Transition Metal Organometallic Chemistry
Professor Karen I. Goldberg, 2023 Nichols Medalist, University of Pennsylvania

The New York ACS acknowledges financial support of this event by the William H. Nichols Fund for Chemistry at the Boston Foundation.
NORTH JERSEY MEETINGS

2023 NORTH JERSEY EXECUTIVE COMMITTEE MEETING

2023 North Jersey ACS Chair Justyna Sikorska and the Executive Council welcome you to our monthly meetings. All meetings will be held virtually, for any additional information click here to email our Communications Chair.

<table>
<thead>
<tr>
<th>Date</th>
<th>Meeting Type</th>
<th>Date</th>
<th>Meeting Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 20</td>
<td>(virtual)</td>
<td>September 18</td>
<td>(hybrid)</td>
</tr>
<tr>
<td>April 17</td>
<td>(virtual)</td>
<td>October 23</td>
<td>(virtual)</td>
</tr>
<tr>
<td>May 22</td>
<td>(hybrid)</td>
<td>November 13</td>
<td>(virtual)</td>
</tr>
<tr>
<td>June 19</td>
<td>(hybrid)</td>
<td>December – TBD</td>
<td></td>
</tr>
</tbody>
</table>

NORTH JERSEY ACS CHROMATOGRAPHY GROUP

NJCG is hosting an online seminar 1:30 pm- 3:30 pm (US EST) on March 7th, 2023 focused on "Cannabis Analysis". Registration is free using the link provided and NJCG welcomes global audiences to participate in this great event.

Register here  
Download Flyer

NORTH JERSEY ACS MASS SPECTROMETRY DISCUSSION GROUP

The Mass Spectrometry Discussion Group of North Jersey ACS has exciting events planned for 2023! These include in-person and virtual symposia, as well as the Vendor Show. Please check the NJACS website for more details.

- April 11th
- April 25th
- May 16th
- September 21st
- November 13th-15th

Bruker - in person @ Somerville Elks Lodge in Bridgewater, NJ  
MOBILion – virtual (WebEx)  
Sciex - in person @ Somerville Elks Lodge in Bridgewater, NJ  
Vendor Show – Booking vendors in an ongoing fashion.

Speakers secured as below:

Speaker 1 – Dr. Bhagwat Prasad, Washington State  
Speaker 2 – Dr. Peters Nemes, University of Maryland
NJACS & NYACS LEADERS ATTEND THE ACS LEADERSHIP INSTITUTE

The North Jersey ACS Younger Chemists Committee Co-Chair, Mary Chioma Okorie (left picture), attended the Younger Leaders Track at the annual American Chemical Society (ACS) Leadership Institute, as a recipient of the Younger Chemists Committee Leadership Development Award. The event was held in Atlanta, GA from January 20 - 22, 2023.

Dr. Furlan (center of the right photo above) shared with the attendees the successful story of the New York ACS’ ChemLuminary award winning “#IAMNYACS” social media campaign project, which was well received. Also attending the Leadership Institute were Dr. Ruben Savizky (at left in photo above) and Dr. Maria Contel (at right in photo) of the New York ACS.

NJACS YOUNGER CHEMISTS COMMITTEE

The North Jersey ACS Younger Chemists Committee held their Spring 2023 Seminar Series featuring Dr. Jarod Grossman a Senior Scientist in the Software & Informatics Division at Agilent Technologies on January 24, 2023, via Zoom.
NEW YORK SECTION MEETINGS

BOARD MEETING DATES FOR 2023

The dates for the next three Board Meetings of the ACS New York Section for 2023 are below.

Monday, March 20, 2023 (hybrid)
Friday, April 14, 2023 (in person)
    William H. Nichols Symposium and Medal Award Dinner at the Sonesta Hotel, White Plains, NY.
Monday, June 5, 2023 (hybrid)

Info on other dates

ACS NATIONAL HISTORIC CHEMICAL LANDMARK DEDICATION CEREMONY

Join Us in Honoring a STEM Pioneer

Celebrating the life and legacy of
Dr. Marie Maynard Daly
First African American Female Ph.D. in Chemistry

All are welcome to attend the dedication of the ACS National Historic Chemical Landmark honoring Dr. Marie Maynard Daly at Columbia University on May 19, 2023 from 10:00AM – 2:00PM. The dedication will be proceeded by a symposium honoring Dr. Daly's life, contributions to science and ongoing legacy. Confirmed speakers include, the following:

• Dr. Linda Meade-Tollin (University of Arizona, Emerita)
• Dr. Mände Holford (Hunter College – CUNY)
• Dr. Sibrina Nichelle Collins (Lawrence Tech)
• Dr. Marc Walters (New York University)

The symposium will be followed with the screening of a short film about Dr. Daly's life and impact and the dedication of the US National Historic Landmark in her honor.

Register here

ADVERTISE WITH US

The Indicator is actively seeking new advertisers from academia, industry, suppliers and service groups. New rates are in effect that we believe you will find attractive and competitive.

Click here to request a copy of our new rate sheet and reply form via email.

RIVERDALE SCIENTIFIC, LLC

• We are a woman owned business with over 25 years of sales experience in research & pharmaceutical industries.
• Currently offer a wide variety of glassware, plasticware, safety, small equipment and dry chemicals. Ask for a quote today!
• Website: http://riverdalescientific.com
• Contact: 209-459-4041 and Email: info@riverdalescientific.com
• Located 576 Valley Road Unit 192 Wayne, NJ 07470
THIS MONTH IN CHEMICAL HISTORY

In 1933, hypophosphoric acid was an enigma – was it \( \text{H}_2\text{PO}_3 \) or \( \text{H}_4\text{P}_2\text{O}_6 \)? This month’s contribution Prof. Goldwhite continues the exploration of the 1933 volume of “Annual Reports of the Progress of Chemistry” which answers that question. It also reports on the coordination chemistry of alkali metals – decades before the advent of crown ethers and cryptands. The issue continues into the chemistry of the dithionate ion, \( [\text{O}_3\text{SSO}_3]^{2-} \), and the metabisulfite ion \( [\text{O}_3\text{SSO}_2]^{2-} \), two ions that one is not likely to see in an undergraduate curriculum.

Read the full article here

COMMITTEE ON THE HISTORY OF THE NEW YORK LOCAL SECTION

Over the past twenty-five years the New York Section has participated in the designation of seven, soon to be eight, National Historic Chemical Landmarks and four New York Section Historic Chemical Landmarks, as detailed on its website. 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.

LONG ISLAND SUBSECTION

_Virus-like particle αGal glycoconjugate as a vaccine candidate against Chagas disease_

**Speaker:** Dr. Carlos A. Sanhueza  
School of Pharmacy and Health Sciences  
St. Johns University  
**Date:** Thursday, March 2, 2023  
**Time:** 6:00 PM via [Zoom](#)  
**Cost:** Complementary

Download Flyer

_Sustainable Metal Production through Coordination Chemistry: Elucidating Similarities and Differences in the Properties of Isostructural Nb^V/Ta^V Complexes to Drive Separation_

**Speaker:** Maxwell H. Furigay  
Department of Chemistry  
University of Pennsylvania  
**Date:** Thursday, March 30, 2023  
**Time:** 6:00 PM via [Zoom](#)  
**Cost:** Complementary

Download Flyer
WESTCHESTER CHEMICAL SOCIETY

Science and US History of Whisky Making

Speaker: Victor Margiotta, M.S., President
VMAR Food Labeling Association, LLC

Date: Wednesday, March 8, 2023
Time: 5:30 PM Refreshments
6:00 PM Seminar
Place: In-person: Gateway 110
Westchester Community College
or hybrid option via Zoom

Download Flyer

Robertson Microlit Laboratories

Where speed and accuracy are elemental

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
DSC, TGA, melting point
HPLC

1705 US Highway 46 · Suite 1D · Ledgewood, NJ 07852 · 973.966.6668 · F 973.966.0136
www.robertson-microlit.com · results@robertson-microlit.com

Rapid Results · Quality · Accuracy · Competitive Pricing

MIDDLE ATLANTIC REGIONAL MEETING MARM 2023

Where: CUNY Graduate Center
& St. John's University

Date: Friday, June 9-10, 2023
Time: 10:00 AM – 2:00 PM

Website
Abstracts due March 6, 2023
Registration open
Exposition & Sponsorship Opportunities Available
CALL FOR ABSTRACTS:
2023 UNDERGRADUATE RESEARCH SYMPOSIUM

The Student Activities Committee of the New York Section of the American Chemical Society would like to invite you to attend the 70th Annual Undergraduate Research Symposium to be held at LaGuardia Community College, CUNY (directions) on Saturday, May 6, 2023 from 8:00AM – 2:00PM. This hallmark year also marks our return to an in-person symposium.

See website for more information
Abstract submission deadline: April 1, 2023
Registration Deadline: April 15, 2023

HUDSON-BERGEN SUBSECTION

24TH ANNUAL STUDENT RESEARCH SYMPOSIUM - CALL FOR ABSTRACTS

The Hudson-Bergen Subsection is hosting a virtual forum for students (undergraduate and graduate) and their faculty mentors to present the results of their research on Friday, April 28, 2023 from 3:00PM – 6:30PM. Students who wish to make virtual presentations must send an abstract via e-mail to mleonida@fdu.edu, by April 14, 2023. The abstract should be in MS Word (font Times New Roman 12) and must include the names and addresses of the student(s) and their faculty adviser(s) in addition to the title of the abstract. The abstract should not exceed 200 words. The name of the student presenting the poster should be underlined. There is no registration fee.

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

CALL FOR ABSTRACTS:
2023 UNDERGRADUATE RESEARCH SYMPOSIUM

The Student Activities Committee of the New York Section of the American Chemical Society would like to invite you to attend the 70th Annual Undergraduate Research Symposium to be held at LaGuardia Community College, CUNY (directions) on Saturday, May 6, 2023 from 8:00AM – 2:00PM. This hallmark year also marks our return to an in-person symposium.

See website for more information
Abstract submission deadline: April 1, 2023
Registration Deadline: April 15, 2023

HUDSON-BERGEN SUBSECTION

24TH ANNUAL STUDENT RESEARCH SYMPOSIUM - CALL FOR ABSTRACTS

The Hudson-Bergen Subsection is hosting a virtual forum for students (undergraduate and graduate) and their faculty mentors to present the results of their research on Friday, April 28, 2023 from 3:00PM – 6:30PM. Students who wish to make virtual presentations must send an abstract via e-mail to mleonida@fdu.edu, by April 14, 2023. The abstract should be in MS Word (font Times New Roman 12) and must include the names and addresses of the student(s) and their faculty adviser(s) in addition to the title of the abstract. The abstract should not exceed 200 words. The name of the student presenting the poster should be underlined. There is no registration fee.

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

CALL FOR ABSTRACTS:
2023 UNDERGRADUATE RESEARCH SYMPOSIUM

The Student Activities Committee of the New York Section of the American Chemical Society would like to invite you to attend the 70th Annual Undergraduate Research Symposium to be held at LaGuardia Community College, CUNY (directions) on Saturday, May 6, 2023 from 8:00AM – 2:00PM. This hallmark year also marks our return to an in-person symposium.

See website for more information
Abstract submission deadline: April 1, 2023
Registration Deadline: April 15, 2023

HUDSON-BERGEN SUBSECTION

24TH ANNUAL STUDENT RESEARCH SYMPOSIUM - CALL FOR ABSTRACTS

The Hudson-Bergen Subsection is hosting a virtual forum for students (undergraduate and graduate) and their faculty mentors to present the results of their research on Friday, April 28, 2023 from 3:00PM – 6:30PM. Students who wish to make virtual presentations must send an abstract via e-mail to mleonida@fdu.edu, by April 14, 2023. The abstract should be in MS Word (font Times New Roman 12) and must include the names and addresses of the student(s) and their faculty adviser(s) in addition to the title of the abstract. The abstract should not exceed 200 words. The name of the student presenting the poster should be underlined. There is no registration fee.
CHEMISTS CELEBRATE EARTH WEEK 2023 – NEW YORK ACS

Join the New York ACS on Sunday, April 16, 2023 from 11:00AM – 3:00PM for our 10th Annual Celebration of Earth Week at the Jones Beach Energy and Nature Center! What a perfect place to celebrate this year’s theme of ‘The Curious Chemistry of Amazing Algae’. Registration is FREE, but space is limited so everyone must register (including children).

WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST Awardee

The Westchester Chemical Society is honored to announce that its 2023 Distinguished Scientist Award will be granted to Dr. Ipsita A. Banerjee, Chair of the Chemistry Department at Fordham University. She will be recognized on Wednesday, April 27, 2023 at Pace University in Pleasantville for her development of a broad range of molecularly designed supramolecular soft materials that can function as bioactive scaffolds for targeted nanoscale drug delivery and tissue regeneration.

More details in the April Issue of The Indicator

JOB BOARD

Assistant Professor, Tenure Track – Seton Hall University

Assistant Professor, Chemical Biology and Computation Chemistry – Albert Einstein College of Medicine

VP / Editor in Chief – Chemical & Engineering News

Innovation Scientist/Senior – Firmenich

Chemist, Skincare – Shiseido

 Chemistry, Senior Scientist – Merck & Co.

Staff Scientist, Analytical lab – Innophos

Environmental Analyst I – New York State Department of Enviromental Conservation

Download Flyer
FROM OUR PARTNERS

Department of Chemical & Biomolecular Engineering

Spring Lecture Series

Date: Friday, April 21st, 2023
Time: 10:45am – 12:00pm
Location: Pfizer Auditorium (5 MetroTech Center - Dibee Hall)

Kathryn Whitehead
Cornell University

Distinguished Science Lecture
Honoring Professor Herbert Morawetz

Lipid nanoparticles for RNA delivery: COVID-19 vaccines, chemistry, and beyond

Messenger RNA (mRNA) therapeutics have taken center stage thanks to the successful deployment of the SARS-CoV-2 mRNA vaccines in hundreds of millions of people worldwide. These vaccines were made possible by a herculean effort to overcome the many technical hurdles that have hindered translational efforts. Arguably, the largest challenge there is, that RNA molecules do not readily enter the cell without proper assistance. This is because they are large (50 – 150 nucleotides) and negatively charged; they do not have favorable biodistribution properties nor an ability to cross the cell membranes of target cells. In response to these issues, industrial and academic laboratories, including my own, have created lipid nanoparticles that spontaneously package mRNA and deliver the RNA to key cellular targets in vivo. Here, I will describe biodegradable, biocompatible, lipid-like materials called "lipidoids" that my lab has used to create mRNA-loaded lipid nanoparticles that induce protein expression in a variety of tissues in mice. This talk will describe an especially potent lipid nanoparticle, its chemical characteristics that confer efficacy, and potential applications, including delivery to the pancreas. Together, these data advance our understanding of lipid nanoparticle chemistry and are expected to contribute to the successful formulation of next-generation mRNA therapies.

Contact: Melissa Parrott (mparrott@nyu.edu) and Dan Alibek (dan.alibek@nyu.edu)

EASTERN ANALYTICAL SYMPOSIUM & EXPOSITION 2023

Better life with Analytical Chemistry

Crowne Plaza Princeton Conference Center | Plainsboro, NJ
November 13–15, 2023

Professor Zhenan Bao

Department of Chemical Engineering
Stanford University, Shriram Center
Stanford, CA

“Skin-inspired Organic Electronics”

Seminar information
The New York Section’s Annual Sectionwide Conference was held at St. John’s University January 28th. The conference offered attendees the opportunity to meet with colleagues and ACS friends after another successful year and plan events honoring Dr. Marie Maynard Daly. The conference included award presentations, two keynote addresses, introductions of the 2023 election candidates, and planning sessions for the Section’s 2023 activities. Mary Virginia Orna, Ph.D., the New York Section Chair for 2023, welcomed everyone and acknowledged the outstanding service of the Section’s volunteers during 2022.

A suite of once and future New York ACS Chairs enjoying the Sectionwide Conference. From left, Rita Upmacis (2021 Chair), Marc Walters (2008 Chair), Eric Chang (candidate for 2024 Chair-Elect), Ping Furlan (2023 Chair-Elect) and Alison Hyslop (2016 Chair).

Submissions for the April issue of The Indicator are due on March 16th.

http://www.theindicator.org/

NEW YORK ACS PARTNERED WITH THE NEW YORK HALL OF SCIENCE AND PEPSICO FOR THE 2022 NATIONAL CHEMISTRY WEEK CELEBRATION

The New York ACS celebrated National Chemistry Week (NCW) 2022 with our partners at The New York Hall of Science (NYSCI) on October 16, 2022 from 11:00 am to 12:30 pm. The theme of “Fabulous Fibers: The Chemistry of Fabrics” was highlighted throughout the events.

PepsiCo volunteers help the visitors make their favorite drinks. Dr. Jennifer Albert helps the visitors create their artful bookmarks by paper chromatography.
GRANTS & AWARDS

GRANT OPPORTUNITIES

ACS PETROLEUM RESEARCH FUND
Grant proposals for funding fundamental research in the petroleum field are now being accepted.

DUE MARCH 10, 2023
Learn more

GLOBAL INNOVATION GRANT
Up to $5,000 may be requested to support ACS units for internationally collaborative and innovative activities/events.

DUE APRIL 9, 2023
Learn more

SENIOR CHEMISTS COMMITTEE DIVERSITY, EQUITY, INCLUSION AND RESPECT (DEIR) GRANT
Grants of $500 are available for projects that advanced ACS’s core values of diversity, equity, inclusions and respect which are led by senior chemists.

DUE MAY 31, 2023
Learn more

SENIOR CHEMISTS MINI-GRANT
Local Sections may request $500 to support an event or activity to increase the engagement of senior members.

DUE MAY 31, 2023
Learn more

LOCAL SECTION MEMBER ENGAGEMENT AND ENHANCEMENT(MEET) GRANT
Local Sections may request up to $2000 to strengthen and build community by better engaging their current membership, or by recruiting new members.

DUE MAY 31, 2023
Learn more

AWARDS

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences
Deadline: March 1, 2023

E. Ann Nalley Middle Atlantic Regional Award for Volunteer Service to the ACS
Deadline: March 8, 2023

ACS Division of Chemical Education Middle Atlantic Region Award for Excellence in High School Teaching
Deadline: March 8, 2023

E. Emmet Reid Award in Chemistry Teaching at Small Colleges
Deadline: March 8, 2023

WOMEN CHEMISTS COMMITTEE OVERCOMING CHALLENGES AWARD
Recognizes an individual undergraduate for her efforts in overcoming hardship to achieve success in chemistry

DUE APRIL 1, 2023
Learn more

TEACHER SCHOLARSHIPS

ACS HACH POST-BACCALAUREATE TEACHER SCHOLARSHIP
Provides up to $6,000 in financial support for recent graduates and graduate students with an interest in becoming chemistry teachers.

DUE May 1, 2023
Learn more

ACS HACH SECOND-CAREER TEACHER SCHOLARSHIP
Provides up to $6,000 in financial support for chemistry professionals to obtain their masters degree in education or teacher certification in chemistry.

DUE MAY 1, 2023
Learn more
OPPORTUNITIES

For High School Students

Liberty Science Center’s Partners in Science Program  
Due March 17

ACS Project SEED  
due March 31

ChemClub Student Scholarship  
Due March 31

SLAS – NOBCChe Scholarship  
Due April 1

For Undergraduates

ACS Scholars Program  
Due March 1

ACS Bridge Program  
Due March 15

Priscilla Carney Jones Scholarship  
Due May 1

Student Chapter Awards  
Due May 31

For Aspiring Faculty

Soft Matter Future Faculty Workshop  
due April 3

Postdoc to Faculty Workshop  
Learn more

SAFETY IS EVERYONE’S CULTURE

Join the Division of Chemical Health & Safety for a 3.5-hour workshop directed at frontline researchers in academic institutions from undergraduates to faculty. Topics discussed include: risk assessment of research projects, understanding the often confusing safety hierarchies of academic institutions, and graduate student led Laboratory Safety Teams. $25 registration fee.

Register here by March 5