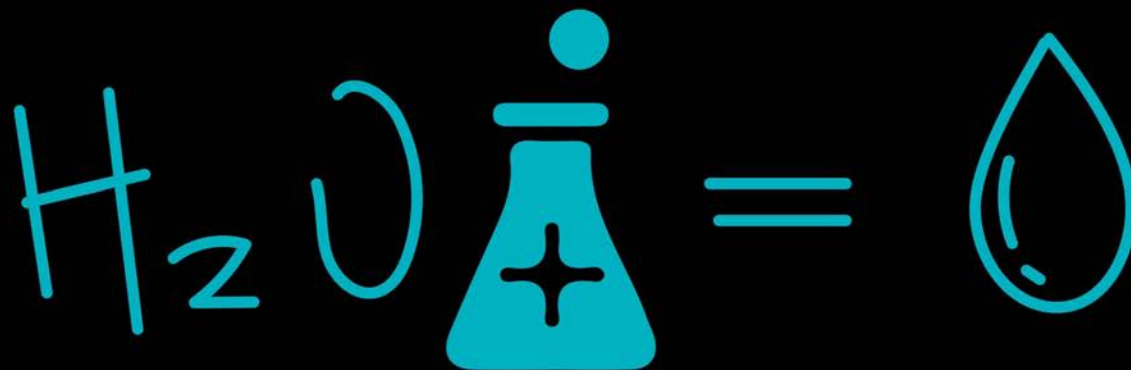


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New York

MAY 2022



ACS Local Section
North Jersey

Vol. 103 • No. 5

ISSN0019-6924

www.theindicator.org

THIS MONTH IN CHEMICAL HISTORY

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

In this month's column I will conclude my looking back a century and examining what was new in the chemical world in 1922. I will again be scanning the pages of the "Annual Reports of the Progress of Chemistry for 1922" issued by The Chemical Society (of London; now the Royal Society of Chemistry) in 1923. This is the 19th volume of this valuable series.

The analytical chemistry section of The Reports reflects a return in numbers of publications to pre-World War 1 status. Not surprisingly, considering the date, spectroscopy is a minor contributor. Caesium, rubidium, and germanium are characterized by this technique (shades of Bunsen and Kirchhoff) and keto-enol mixtures have also been studied. The novel use of radioactive tracers has been applied to determination of very small quantities of lead and bismuth in materials. Similarly, the amount of thorium in monazite sand has been estimated by detecting its gaseous emanation by an electroscope.

But the bulk of the analytical chemistry reported concerns new applications of then-standard methods. Gases like oxygen, carbon monoxide, nitric oxide, and phosphine are analyzed by absorption in solutions of reagents. Ingenious adsorption techniques are employed for hydrogen and benzene vapor.

A section on "Agricultural Analysis" dwells on standardizing methods for determining humus, moisture, acidity and basicity, iron, and aluminum in soils. Methods for assessing available phosphorus and nitrogen in fertilizers are critically reviewed, including improvements in Kjeldahl digestion (look it up if it isn't familiar!).

Inorganic analysis starts off with a modification (use of sodium sulphide solution rather than hydrogen sulphide gas) in the group separation of metal ions. Nostalgic! I spent two years in high school and a year at university surrounded by the faint odor of hydrogen sulphide produced in a Kipps generator (another one for you to look up!). Paragraphs on determining hydrogen ion concentrations refer mainly to indicators. There were, of course, no commercial pH meters in production, but the calomel electrode is mentioned as an approach to electrochemical determination of acidity.

Physiological chemistry *a.k.a.* biochemistry is a subject of growing interest at that period. Two new journals began publication, and dozens of important new books. I mention only a couple: "Vitamins" by C. Funk; and "Hydrogen ion concentration: importance in biology and methods for its determination" by L. Michaelis. Separation of amino-acids from products of hydrolysis of proteins remains a challenge. Precipitation methods are reviewed, plus an elegant electrical field separation of groups of acidic, neutral, and basic amino-acids.

The field of crystallography is marked in 1922 by the centenary of the birth of Louis Pasteur – a chemist first, and a microbiologist subsequently. His studies of tartrates laid the foundation for organic stereochemistry and in 1922 the structure of tartaric acid was confirmed by X-ray crystallography.

Finally we turn to a review of sub-atomic phenomena and radioactivity covering 1921 and 1922 by the Nobel Laureate F. W. Aston. The mass spectrograph has been used to determine further isotopic compositions including calcium, zinc, selenium (6 isotopes), and tin (probably 7 isotopes). No less than 7 new arrangements of the Periodic Table have been suggested. Subtle shifts in the emission spectra of isotopes have been detected. Some separation has been achieved of the isotopes of mercury by fractional distillation; and of those of chlorine by gaseous diffusion of HCl through a porous clay membrane.

A lecture by Sir Ernest Rutherford summarizes the work of his group on the artificial disintegration of lighter elements by fast alpha-particles. The most frequent result is the ejection of a proton from the nucleus and the conversion of an element to the one of atomic number one lower than the starting element.

If you enjoyed these columns on the chemistry of 1922 you may look forward (my fingers are crossed) to the 1923 version early in 2023.

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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

June 2022	May 16, 2022
September 2022	August 16, 2022
October 2022	September 16, 2022
November 2022	October 16, 2022
December 2022	November 16, 2022

The Indicator (ISSN 0019-6924) 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 unless so stated. The Indicator is distributed electronically to members via email and their local section websites. Non-members are invited to read it online. ACS Members should register their email addresses at:

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May Calendar

NEW YORK SECTION

Saturday, May 7, 2022

Undergraduate Research Symposium
See page 9 & 10

Thursday, May 26, 2022

Organic Topical Group
See page 11

May 31, 2022

Election Ballots Due
See page 19

Monday, June 13, 2022

Board of Directors Meeting
See page 9

NORTH JERSEY SECTION

Thursday, May 12, 2022

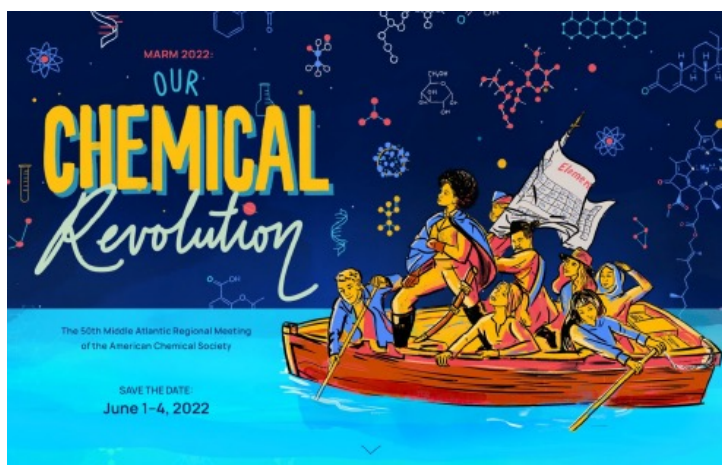
2021 Baekeland Award Symposium
See page 6

Monday, May 16, 2022

North Jersey Executive Committee Meeting
See page 5

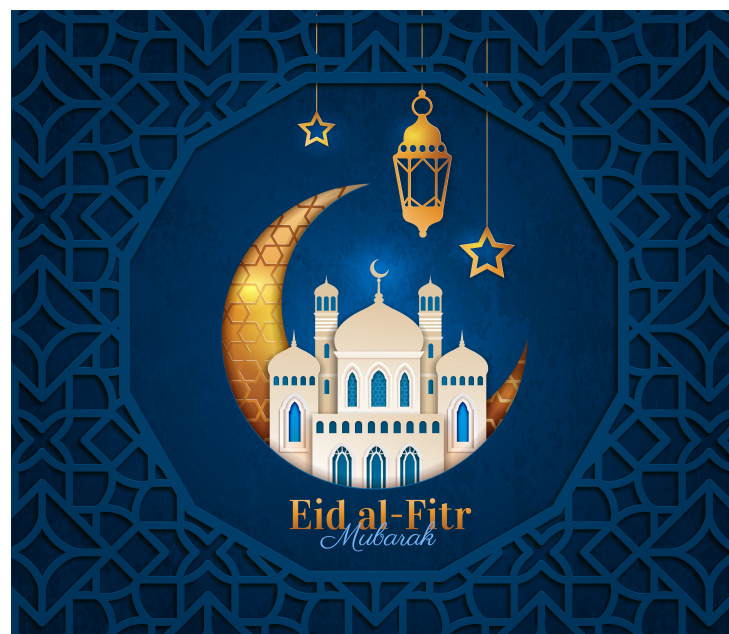
Thursday, May 19, 2022

NMR Topical Group
See page 5



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The deadline for submitting material for the June issue of The Indicator is May 16th
<http://www.theindicator.org/>

The following issue is in September (material due August 16th)

NORTH JERSEY SECTION MEETINGS


2022 NORTH JERSEY EXECUTIVE COMMITTEE MEETINGS

2022 North Jersey ACS Chair Qi Gao and the Executive Council welcome you to our monthly NJACS meetings. All meetings will be held virtually until further notice. The meetings are normally held on **Mondays from 7 pm to 9 pm once per month**. All members are welcome to attend and become more involved in section activities.

For any additional information including a link to virtual meetings and RSVP deadline for in-person meetings, please [click here to email our Communications Chair](#).

May 16
June 13
September 19

October 17
November 14
December 12



New Jersey Association of Forensic Scientists 2022 Spring Seminar
“Canines in Forensics”
May 6th, 2022 8:00AM – 3:30PM at the Lambertville Inn, Lambertville, NJ

Speaker Topics to Include:

See Our Website:
NJAFS.org for More Information

The birth of K-9 Units in NJ
Training and focus for K-9
Science of K-9 Olfactory
Drug dogs, Arson dogs
Case studies

Registration Includes: President’s Reception (05/05/22), Continental Breakfast, Break, Luncheon, and Certificate

NORTH JERSEY NMR TOPICAL GROUP

Connecting Chemical Shifts to Structure for Proteins and Nucleic Acids

Speaker: [Prof. David A. Case](#)
 Department of Chemistry
 Rutgers University

Date: **Thursday, May 19, 2022**

Time: 12:00 PM via MS Teams

[Download Flyer](#)



Abstract: An automated fragmentation quantum mechanics/molecular mechanics approach (AFNMR) has shown promising results in chemical shift calculations for biomolecules. Trends in chemical shift are stable with regards to change in density functional or basis sets, and the use of the small “pcSseg-0” basis, which was optimized for chemical shift prediction, opens the way to more extensive conformational averaging, which can often be necessary, even for fairly well-defined structures. There have also been recent advances in the use of machine learning approaches to develop empirical connections to structure. I will discuss prospects for using both types of calculations to gain insights into biomolecular structure and dynamics.

American Chemical Society-North Jersey Section 2021 Baekeland Award Symposium



Thursday, May 12, 2022 • 1:00 pm – 6:00pm

Fairleigh Dickinson University, Florham Campus, The Mansion, Lenfel Hall

285 Madison Avenue, Madison NJ 07940



The North Jersey Section of the American Chemical Society established the Baekeland Award in 1944 to commemorate the technical and industrial achievements of Leo Hendrik Baekeland and to encourage younger chemists to emulate his example. The award is presented biennially to a United States-based chemist under 40 years of age in recognition of accomplishments in pure or industrial chemistry, as characterized by the initiative, creativeness, leadership, and perseverance of the individual and indicated by published or unpublished evidence. Professor Prashant K. Jain is being recognized for his research in harnessing light as a source of energy to control the attributes and functions of advanced materials.

Agenda

- 1:00 Registration
- 1:30 **Welcome Address**
Dr Qi Gao, *Baekeland Symposium Chair*
- 1:40 **Professor George Schatz**
Nanoparticles, Plasmons and Theory
- 2:20 **Professor Naomi Halas**
Nanomaterials and Light for Sustainability and Societal Impact
- 3:00 **Professor Robert W. Field**
Broken Patterns of Broken Patterns
- 3:40 Break / Refreshments
- 4:10 **Professor Paul Weiss**
Plasmonic Approaches to Biology and Medicine
- 4:50 **Remarks and Baekeland Award Presentation**
Dr. Natalie LaFranzo, ACS Director-At-Large
Dr. Qi Gao, *NJ-ACS Section Chair*
- 5:00 **Keynote: Professor Prashant Jain**
The Photofication of Chemical Manufacturing
- 5:50 **Closing Remarks**
Mrs. Diane Krone, *NJ-ACS Awards Chair*



Prashant K. Jain, PhD
Professor of Chemistry and Alumni Scholar
University of Illinois Urbana-Champaign
Keynote Speaker
2021 Baekeland Awardee



George Schatz, PhD
Charles E. and Emma H. Morrison
Professor of Chemistry and of
Chemical and Biological Engineering
Northwestern University



Naomi Halas, PhD
Stanley C. Moore Professor
in Electrical and Computer Engineering
Professor of Biomedical Engineering,
Chemistry, Physics & Astronomy
Rice University



Robert W. Field, PhD
Professor of Chemistry
Post-Tenure
Massachusetts Institute of Technology



Paul Weiss, PhD
UC Presidential Chair Distinguished
Professor of Chemistry and Biochemistry,
Bioengineering Distinguished Professor
of Materials Science
University of California, Los Angeles



Registration Fee: \$15 professionals; \$5 students, retirees, unemployed
Online registration required by May 1, 2022 at www.njacs.org/baekeland due to limited seating.
Campus Directions: www.njacs.org/fdu-florham-directions

MEET AMJAD ALI
NJACS EXECUTIVE BOARD MEMBER
VICE-CHAIR OF THE ACS DIVISION OF MEDICINAL CHEMISTRY (MEDI)

By Sandra Keyser

Amjad Ali is an ACS Fellow, an experienced medicinal chemist, and member of the NJACS Executive Board. In addition to serving as the Chair of the NJACS Organic Chemistry Topical Group, he is a Past Chair of the NJACS section with a wry sense of humor.



You've been an active chemist for several decades now. Could you give us a short biography about your career as a chemist?

After wrapping up my postdoctoral research at the University of Texas at Austin where I worked with Professor Stephen Martin on the total synthesis of marine alkaloids, I joined Merck as a Senior Research Chemist in 1998. Several promotions later and I am now Executive Director and Head of External Discovery Chemistry since October 2020.

How did you get involved with NJACS and the ACS?

Though I've been an ACS member for 25 years, I first became involved with the North Jersey local section. The Organic Topical Group had been dormant due to lack of funding and participation. With Lawrence Williams at Rutgers, we were able to revitalize the Organic Topical Group by raising money from industry and getting people engaged. One of the events we were able to initiate with other members on the committee was the Award for Creativity in Molecular Design in 2006. I continued to be involved with the Organic Topical Group and then was invited to the Executive Committee. After handing off the Organic Topical Group, I became NJACS Chair in 2019. I've also been involved on the national level with the ACS, serving as the Industrial Councilor and participating in the Long Range Planning Committee (LRPC) for the ACS Division of Medicinal Chemistry. Last year, I was elected as Vice Chair and Chair of the LRPC. This will be a 5-year term in which I will be Vice Chair for one year, Program Chair for another two years, Chair and past of the Division of Medicinal Chemistry.

What is your current role on the NJACS executive board?

When Mirlinda Biba was Chair, I was the Past Chair and helped Mirlinda by transitioning responsibilities. Though remaining engaged with the Executive Board, I do not have a current role.

MEET AMJAD ALI (continued)

What NJACS programs are you looking forward to the most in 2022 and 2023?

The Baekeland Symposium is a program I enjoy very much. It's an opportunity to listen to talks that focus on different fields of chemistry, in the same way as the Kavli lectureship at the National Meetings. One set of events that have been postponed due to the pandemic are street fairs. Being there for the kids and doing demonstrations is great and is a labor of love. I also enjoy the NJ State Science Day – with Bettyann's help, we were able to revitalize the program in which high school students are given a topic to present on a pre-determined topic. This year's State Science Day will focus on the theme of climate change.

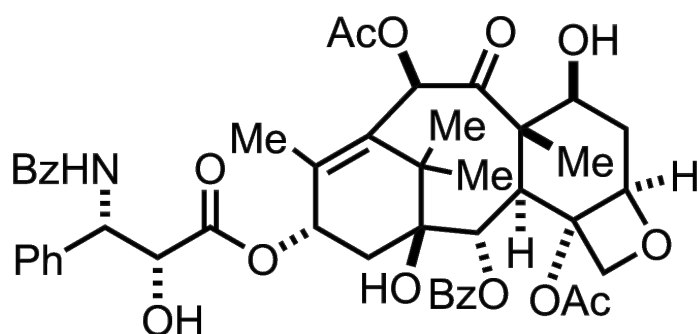
You are currently the vice-chair of the Division of Medicinal Chemistry. What initiatives are you working towards in this role? What aspects of this role have you found enjoyable?

We have had a lot of turnover in this division, including different treasurers and secretaries. As part of our Strategic Plan, we want to create more stability and serve our division members better. Like the rest of the ACS, we suffer from declining membership, so we want to consider our value for the members. Reaching out internationally, targeting Asia and Europe, and reaching out to the next generation of younger medicinal chemists are also a part of the initiatives.

One aspect of this role that I've enjoyed is chairing the 37th ACS National Medicinal Chemistry Symposium in NY from June 26th to the 29th. (Note that you can still [register for the symposium!](http://www.nmcsonyc.org))



What is your favorite molecule?



When I was doing my PhD and postdoctoral work, marine-derived alkaloids were the hot topic of those years. Professors were feverishly working on total syntheses. To that point, one of my favorite molecules is taxol, shown at left. Such a complex molecule which fascinated and intrigued the synthesis community until it was finally synthesized in the 1990's.

NEW YORK SECTION MEETINGS

BOARD MEETING DATES FOR 2022

All 2022 Board Meetings will be held as hybrid meetings from the Iona College campus ([directions](#)). Prof. Kathleen Kristian will Chair all meetings. The meetings will start at exactly 6:30 PM. The meetings are open to all – everybody is welcome, but an RSVP for in-person attendance is required 5 days before the meeting, the Wednesday before the Monday meeting. All members who would like to attend any of the meetings should inform the New York Section office by emailing Ms. Bernadette Taylor.

Monday, June 13, 2022 (hybrid)
Monday, September 19, 2022 (hybrid)
Monday, November 21, 2022 (hybrid)

Please note that there will also be a virtual meeting of the Finance Committee on Thursday, **November 10, 2022**.

More information will be posted in future monthly issues of [The Indicator](#) and on the [New York ACS Board of Directors website](#).

2022 UNDERGRADUATE RESEARCH SYMPOSIUM KEYNOTE ADDRESS



Attacking weaknesses of drug delivery with nanobiotechnology: Magnetic field-controlled nanoparticle motion and peptide self-assembly

Speaker: [Prof. Hiroshi Matsui](#)
 Department of Chemistry
 Hunter College – CUNY
 Department of Biochemistry
 Weill Cornell Medicine

Date: Saturday, May 7, 2022

Time: 9:45 AM via Zoom

[Download Abstract Booklet](#)

The Student Activities Committee of the New York Section of the American Chemical Society invites you to attend the 68th Annual Undergraduate Research Symposium ([URS](#)). This virtual symposium will take place from **9:30AM – 1:00 PM on Saturday, May 7, 2022**. The URS provides an excellent opportunity for undergraduate chemistry students in the New York Metropolitan Area to present the results of their research.



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**New York's American Chemical Society – Student Activities Committee
69th Annual Undergraduate Research Symposium
Medgar Evers College - CUNY**

Saturday, May 7th, 2022

2022 NY ACS Undergraduate Research Symposium	
9:30 am	Welcoming Remarks Dr. Rita Upmacis, 2022 Chair, ACS NY Section Dr. Mohsin Patwary, the Dean of Science at Medgar Evers College Dr. Michele Vittadello, Co-Chair, ACS NY Section, Student Activities Committee
9:45	Keynote Address Dr. Hiroshi Matsui, Hunter College City University of New York
10:30	Instructions for the day Dr. Michele Vittadello, Co-Chair, ACS NY Section, Student Activities Committee
10:35	Presented Papers - Analytical Chemistry Biochemistry I Biochemistry II Environmental Chemistry Inorganic Chemistry and Biochemistry Nanochemistry and Surface Chemistry Organic Chemistry Physical Chemistry and Chemical Education Polymer Chemistry
12:05	Virtual Lunch with our sponsors <ul style="list-style-type: none"> • Christian Andrews, Cathy Culver, Christina Daniels and Marlena Sheridan, PepsiCo Graduate Programs <ul style="list-style-type: none"> • Dr. Ruth Stark, Graduate School Research Opportunities in Biochemistry, Biophysics, and Biodesign at The City University of New York • Dr. Brian Gibney, CUNY M.S. in Nanoscience • Dr. Sebastien Poget CUNY PhD Biochemistry • Dr. Yolanda Small CUNY PhD Chemistry Raffle Networking Breakout Sessions
1:00 pm	End of Program

ORGANIC TOPICAL GROUP – JOINT MEETING WITH THE NEW YORK ACADEMY OF SCIENCES CHEMICAL BIOLOGY DISCUSSION GROUP**FEATURING KEYNOTES BY**

Peter Schultz, PhD
The Scripps Research Institute

Ayesha Sitlani, PhD
International AIDS Vaccine Initiative (IAVI)

WITH LECTURES BY

Henry Colecraft, PhD
Columbia University Medical Center

Sandra Denise Field, PhD
Pfizer

Amy Q. Han, PhD
Regeneron Pharmaceuticals

Dann Parker
Merck

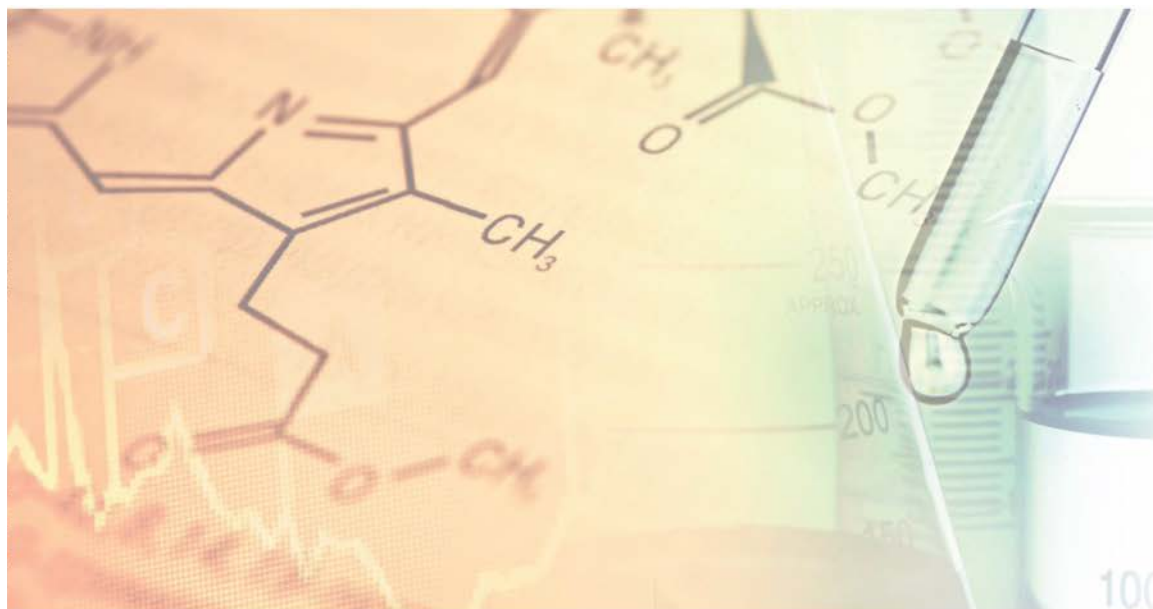
Date: Thursday, May 26, 2022

Time: 9:00 AM – 5:20 PM

[Register here](#)

Join us in-person for the annual Academy's Chemical Biology Discussion Group's Year-End Symposium to network with other researchers in local-area industry and academic laboratories. This year, the symposium will be a full-day program featuring keynote speakers Dr. Peter Schultz, of the Scripps Research Institute and Dr. Ayesha Sitlani of IAVI, as well invited talks from industry scientists covering a range of topics in chemical biology. As always, there will be short talks competitively selected from abstract submissions and a virtual poster session.

ABSTRACT SUBMISSION EXTENDED TO MAY 2, 2022



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SYMPOSIUM 2022**

May 26, 2022

New York, NY and Virtual

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MEETING REPORTS

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & AWARD PRESENTATION



On April 8, Dr. Alison Butler of University of California-Santa Barbara, received the ACS, New York Section's William H. Nichols Medal Award for 2022 during a virtual medal award ceremony. Dr. Butler received the Nichols gold Medal for "pioneering contributions to marine bioinorganic chemistry." Close to two hundred chemists and guests attended the day's events. Dr. Kathleen Kristian, Chair of the New York Section for 2022, superbly organized and conducted the symposium.

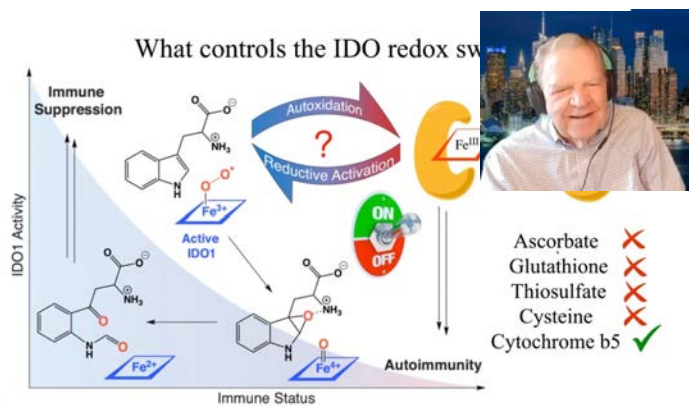
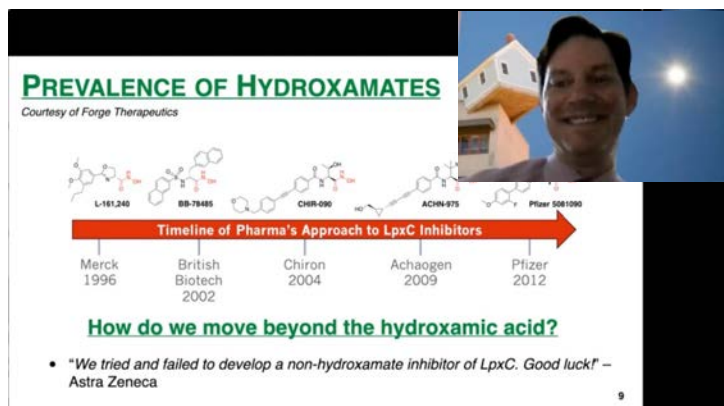
The William H. Nichols Distinguished Symposium, that preceded the award ceremony, was titled "Minerals, Microbes, and Metalloenzymes: Inorganic Chemistry at the Interface." The attendees enjoyed excellent talks by the following internationally known speakers. Dr. Seth Cohen, University of California-San Diego; Dr. John T. Groves, Princeton University; Dr. Amy Rosenzweig, Northwestern University; and Dr. Butler who presented the Award Lecture titled "From Microbes to Mussels: Bioinorganic Chemistry in the Marine Environment." Dr. Mary Virginia Orna, the Chair-Elect of the New York Section, recounted the story of Dr. William H. Nichols and the history of the Nichols Medal. At the conclusion of the symposium she reminded everyone to attend the ceremony that would follow.

Dr. Kathleen Kristian welcomed the attendees and. The American Chemical Society's President, Dr. Angela Wilson, President-Elect, Dr. Judith Giordan, CEO, Thomas Connelly, Director at Large, Dorothy Phillips, and Division I Director, Dr. Katherine Lee, brought greetings and congratulations from the members of the ACS. Dr. Seth Cohen, Dr. Butler's colleague and friend, gave a delightful introduction of this year's medalist. Chair Kristian then virtually awarded the gold medal which had been previously sent by mail, identical bronze medal and an honorarium to Dr. Butler. Following the virtual ceremony, the Medalist and speakers happily met with attendees, speakers and guests – to conclude another successful and truly enjoyable Nichols Medal event.

Supported in part by the William H. Nichols Fund For Chemistry at the Boston Foundation

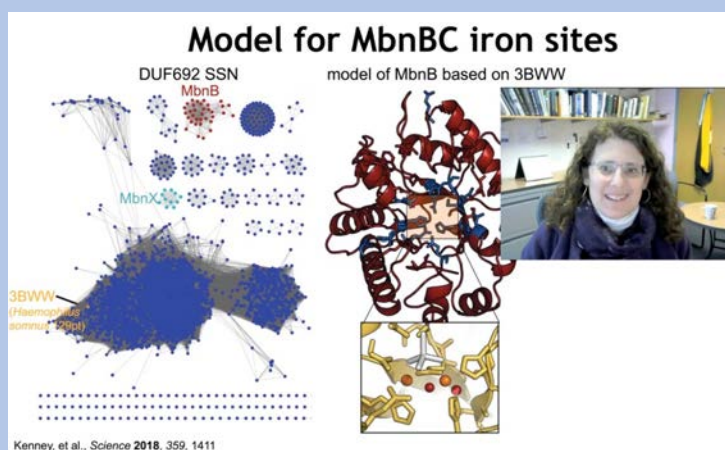
The Nichols Medal Award was established in 1902 by Dr. William H. Nichols to honor a chemical scientist for outstanding original research and was first awarded in 1903. Dr. Nichols, a charter member of the American Chemical Society and its president in 1918 and 1919, maintained a deep commitment to research and development and to the importance of supporting science education and students of chemistry. Since its inception, through an endowment fund, the New York Section administers the award. It has been perpetuated by the generosity of Dr. Nichols, his family, the Nichols Foundation, Inc and the William H. Nichols Fund for Chemistry at the Boston Foundation. The William H. Nichols Medal is the first award in chemistry of the American Chemical Society.

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & AWARD PRESENTATION (continued)



Where Inorganic and Medicinal Chemistry Meet
[Professor Seth Cohen](#),
Department of Chemistry & Biochemistry,
University of California – San Diego

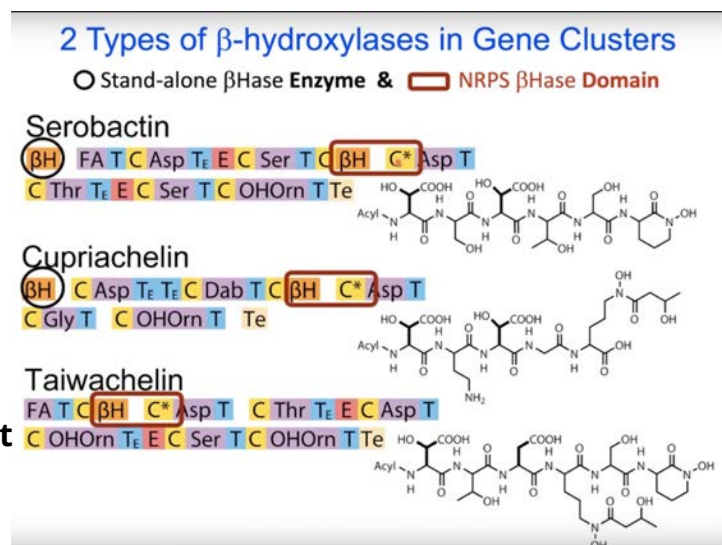
Redox Control of the Immune Response by
Indoleamine 2,3-Dioxygenase
[Professor John T. Groves](#),
Department of Chemistry,
Princeton University

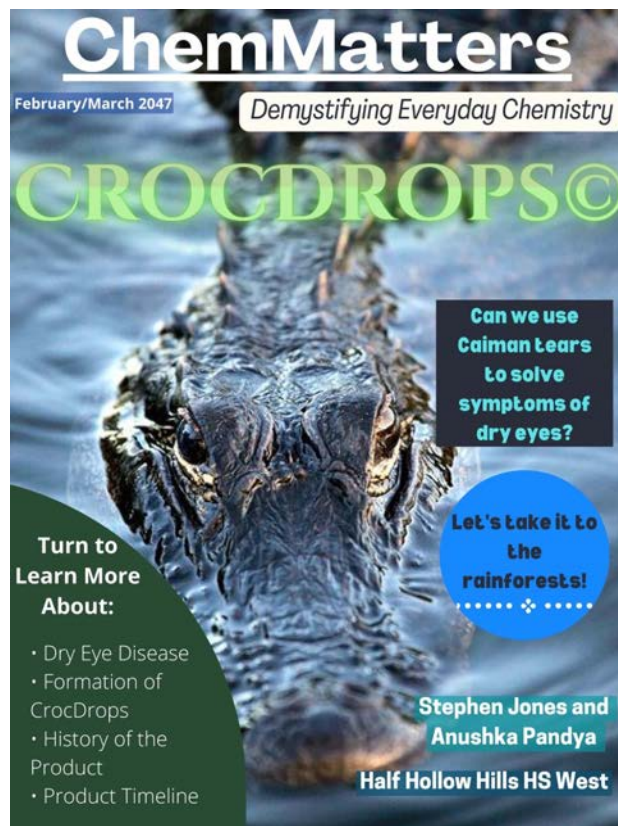
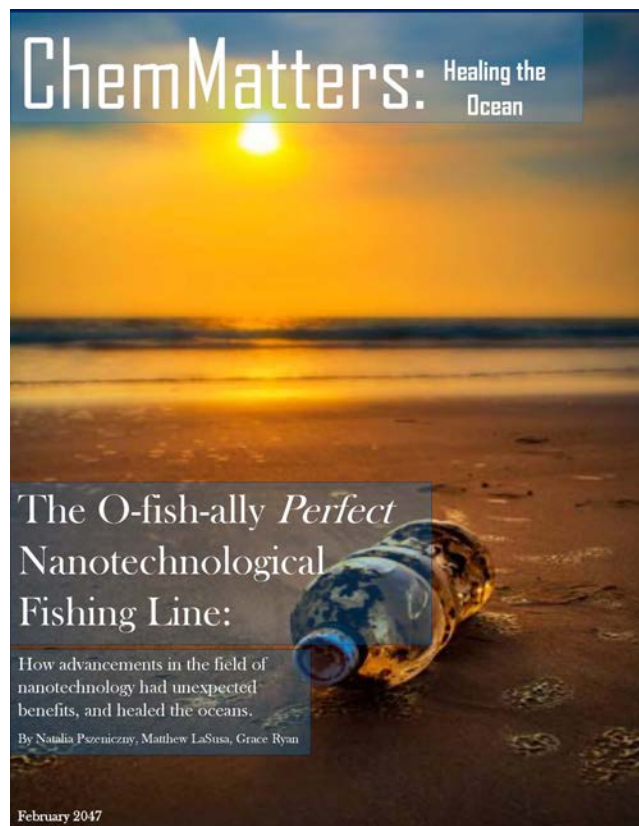


Biosynthesis of a Copper-Chelating
Natural Product
[Professor Amy Rosenzweig](#),
Departments of Molecular Biosciences and
Chemistry,
Northwestern University



From Microbes to Mussels:
Bioinorganic Chemistry in the Marine Environment
[Alison Butler](#), Nichols Medalist,
Department of Chemistry & Biochemistry,
University of California – Santa Barbara



CHEMAGINATION

The 19th Annual [Chemagination Competition](#) asks local high school students to imagine they are living 25 years in the future and have been invited to write an article and design the cover for the magazine *ChemMatters* describing a recent breakthrough or innovation in chemistry that has improved the quality of people's lives today. This year there were 18 submissions from 4 high schools and the event was held virtually due to COVID restrictions. For the Environment category, the first place team of students Natalie Pszeniczny, Matthew LaSusa, and Grace Ryan came from General Douglas MacArthur High School with a project titled "The O-Fish-Ally Perfect Nanotechnological Fishing Line". The second place team of students Anna Pottanat, Daniela Argondizzo, Elena Mingorance, and Keely McCormack came from South Side High School with a project titled "Plastic Eating Bacteria". The third place team of students Mariam Hassan and Jacob Goldbaum came from Half Hollow Hills High School West with a project titled "Seaweed Superheroes". In the Medicine/Health category, the first place team of students Stephen Jones and Anushka Pandya from Half Hollow Hills High School West with a project titled "CrocoDrops". The second place team of students Jack Maurer, Michael Cassano, and Zachary Lyons came from General Douglas MacArthur High School with a project titled "Rheumatoid Arthritis and Its Influence on the Bee Venom Therapy". The third place team of students Sadie Seulal, Ryan Adesso, Marina Ioannou came from South Side

High School with a project titled "Cold Plasma Patches can Heal Burn Scars?". The first place teams of each category were invited to the Regional MARM Chemagination Competition. The quality of all projects was extremely high as all team did an outstanding job at this year's competition.

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

NORTH JERSEY ACS YOUNGER CHEMISTS COMMITTEE MEETING REPORT

The NJACS Younger Chemists Committee held their virtual event, “Bubbling Up: Meet & Greet” on March 30, 2022! This was their first regrouping event for the semester, and it was a great turnout. Be on the lookout for more events they have planned and follow their social media pages for upcoming events!

Social Media Handles

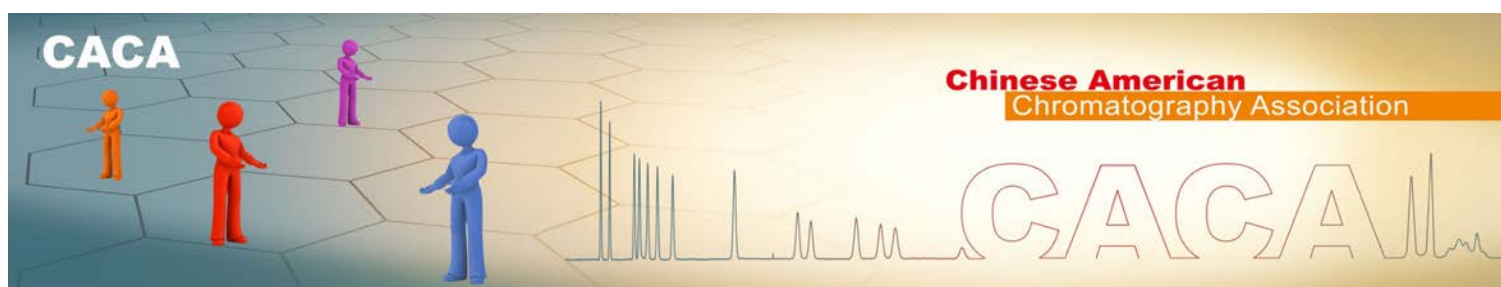
Website: <http://www.njacs.org/ycc>

Email: njacs.youngerchemistscommittee@gmail.com

Facebook: [NJACS YCC Public Group](#)

Twitter: NJACSYCC

Instagram: @njacsycc



NORTH JERSEY CHROMATOGRAPHY GROUP MARCH MEETING REPORT

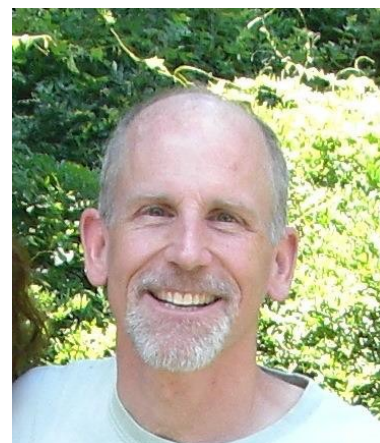
The North Jersey Chromatography Group successfully held an online seminar on March 22, 2022. At this event, the first speaker, Professor James Grinias, discussed the potential for portable liquid chromatography in chemical analysis. Trends in miniaturization have revolutionized the consumer electronics industry. Analogous advancements have been observed in analytical chemistry by implementing microfabrication and microfluidic techniques. However, traditional laboratory equipment is still required if chemical separations are integrated into these devices. The use of a completely portable liquid chromatography system, shown below, that overcomes this barrier was presented with several applications.



Professor James Grinias



Agilent 1200 HPLC



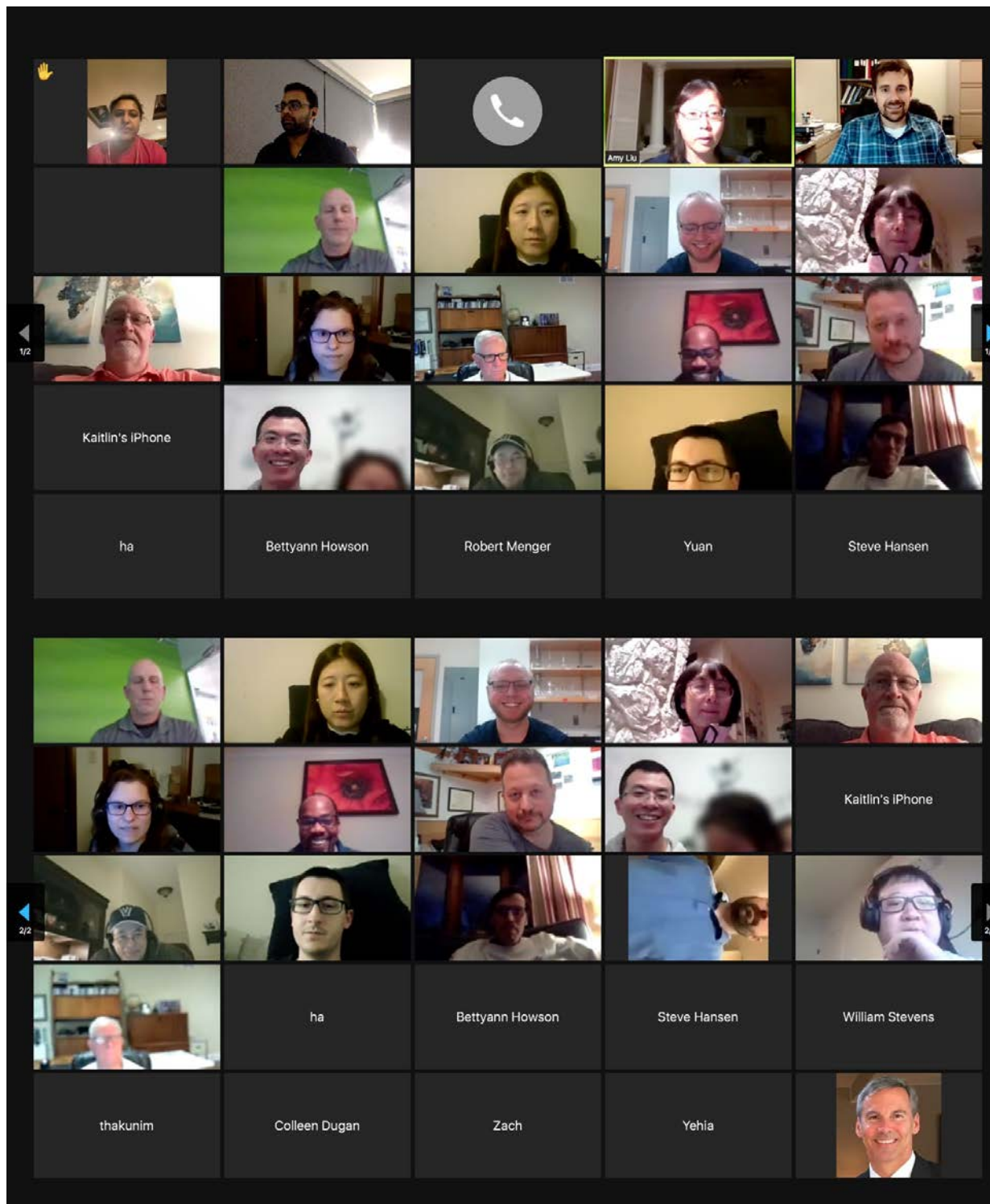
Dr. Charles Goss

The second speaker, Dr. Charles Goss, presented the Enabling Technologies Consortium (ETC) compact HPLC project and illustrated some of the work conducted at GlaxoSmithKline to support its objectives.

NORTH JERSEY CHROMATOGRAPHY GROUP MARCH MEETING REPORT (continued)

Conclusion:

Thirty-three professionals and students, some shown below, attended the online seminar. In conclusion, both presentations were educational and informative. Lots of good questions were posed by attendees after each presentation.



NEW YORK ACS ELECTIONS



The Board of Directors extends a sincere thank you to the following candidates for accepting the nomination to run for office and encourages ACS New York Section members to vote for these worthy candidates. The candidate [biographies](#) are available for your review.

Ballots, electronic or paper will be sent to the membership on May 2, 2022 and voting will be conducted according to ACS guidelines for confidentiality and security. If any member does not receive voting materials by May 3rd, please contact the New York Section Office. Ballots need to be returned by **May 31, 2022**.

Candidates for Office

Chair Elect for 2023

Dr. Ping Furlan (US Merchant Marine Academy)
Dr. Mihaela D. Leonida (Fairleigh Dickinson University)

Secretary for 2023-2024

Dr. Daniel Amarante (Stony Brook University)

Directors-at-Large for 2023

Dr. Rakhi Agarwal (Nassau Community College)
Dr. Maria Contel (Brooklyn College)
Dr. Ronald D'Amelia (Hofstra University)
Dr. Aaron Moment (Columbia University)
Mr. Joseph Wiener (PepsiCo)
Mr. Joseph Ulichny (Columbia University)

Councilor for 2023-2025

Dr. Eric Chang (Pace University)
Dr. Nadja Grobe (Renal Research Institute)
Dr. Alison G. Hyslop (St. John's University)
Dr. Neil D. Jespersen (St. John's University)
Dr. Ruben M. Savizky (The Cooper Union)
Dr. Joseph Serafin (St. John's University)

Alternate Councilor – To Fill Current Vacancies

Dr. Kathleen E. Kristian (Iona College)
Dr. Yosra M. Badiei (St. Peter's University)

[Download the candidate biographies here](#)

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](#). 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 Committee Chair, [Dr. Neil Jespersen](#).

OPPORTUNITIES

GRANT OPPORTUNITIES

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, 2022

[Learn more](#)

MEMBER ENGAGEMENT THROUGH TECHNOLOGY (METT) GRANT

Local Sections may request up to \$2000 to support the use of technology to more fully engage their current membership and to enhance their member recruitment efforts.

DUE MAY 31, 2022

[Learn more](#)

LOCAL SECTION INNOVATIVE PROJECT GRANT

Local Sections may request up to \$3500 to support new programs that stimulate member involvement and are sustainable. Projects that support interactions with other ACS local sections, divisions or committees, other professional associations or community groups are especially encouraged.

DUE JUNE 30, 2022

[Learn more](#)

AWARDS

CIBA/YCC YOUNG SCIENTIST TRAVEL AWARD

Provides funding for young and early career chemists to travel to and participate in an ACS meeting.

DUE MAY 15, 2022

[Learn more](#)

ANALYTICAL CHEMISTRY & THE CHEMICAL AND BIOLOGICAL MICROSYSTEMS SOCIETY YOUNG INNOVATOR AWARD

Honors the contributions of an early career individual who has demonstrated exceptional technical advancement and innovation in the field of microfluidics or nanofluidics.

DUE MAY 31, 2022

[Learn more](#)

WOMEN CHEMISTS COMMITTEE RISING STAR AWARD

Recognizes up to 10 individuals approaching mid-career who have demonstrated outstanding promise for contributions in their respective fields.

DUE JUNE 15, 2022

[Learn more](#)

PFIZER/ACS TRAVEL AND RESEARCH GRANT

Supports chemistry students from underrepresented groups who are going to attend the Fall ACS National Meeting & Exposition in Chicago. Ten students will receive up to \$2,000 in financial support.

DUE JUNE 15, 2022

[Apply now](#)



FOR UNDERGRADUATES*Plan Your Work and Work Your Plan*


ChemIDP's My Vitae

- Document all of your experiences and achievements
- Find resources to help guide you in your job search
- Easily select content for a job specific resume or CV

ChemIDP.org

ACS
Chemistry for Life®

It is never too early to start planning your career. The [ChemIDP](#) is an Individualized Development Plan that is specifically designed for students and postdoctoral fellows in the chemical sciences. This online tool allows you to explore possible careers, determine which skills you will need to succeed and develop plans to achieve your professional goals. Take some time to invest in yourself.

UNDERGRADUATE & GRADUATE STUDENT AWARDS

Join the New York / New Jersey Section of the Society for Applied Spectroscopy is proud to announce its Undergraduate and Graduate Student Awards program. The NYSAS is seeking nominations for awards that recognize excellence in the field of Applied Spectroscopy, broadly defined.

Applications due May 13, 2022.

[More details](#)

**SECOND STUDENT MEETING OF THE COBLENTZ SOCIETY AND THE NE & NY SOCIETY FOR APPLIED SPECTROSCOPY SECTIONS**

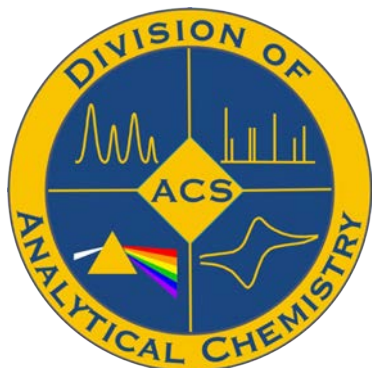
Join the Coblenz Society, New York SAS and New England SAS Sections are hosting a conference for presentations by PhD students from across the world working in all fields of vibrational spectroscopy.

Date: Saturday, May 26, 2022
Time: 12:00 PM EST via Zoom

[Download Flyer](#)

DIVISION OF ANALYTICAL CHEMISTRY

The [Analytical Division](#) organizes programming at the spring and fall ACS meetings, [Pittcon](#), the [SciX conference](#) and the [Eastern Analytical Symposium](#) (EAS). The division has a wide range of outreach programs including student travel grants and regional meeting support. Its award program includes undergraduate, graduate and professional awards. We welcome new members. Please join and/or volunteer to help on one or more activities.



FOR GRADUATE STUDENTS

Leadership Position Open

Position: ACS Graduate Student and Postdoctoral Scholars Advisory Board Appointment (Volunteer)

Start Date: ASAP

Deadline: May 1, 2022 @ 5 PM EDT

Application: Resume/CV and <500 word statement on why you are interested in serving on GSPSAB, addressing any ACS and other leadership positions held, and related experience or training sent to info@ycc-accs.org.

The Graduate Student and Postdoctoral Scholars Advisor board is seeking postdocs or graduate students who are interested in serving on their advisory board. Send Resume/CV and 500 word statement on why you would like to serve on GSPSAB to info@ycc-accs.org by **May 1!**

GRADUATE STUDENT & POSTDOCTORAL SCHOLAR RECOGNITION PROGRAM

ACS invites graduate programs in the chemical sciences and departments with postdoctoral appointments to select graduate students and postdoctoral scholars who've demonstrated exemplary achievements in any of the three categories: Leadership in Mentoring, Leadership in the Promotion of Diversity, Equity, Inclusion, and Respect, and Leadership in the Promotion of Research Safety.

Nominations due **June 30, 2022**

[More info](#)

Graduate Student & Postdoctoral Scholars Recognition Program

Recognize talented graduate students & postdoctoral scholars in the chemical sciences in any of the 3 categories:

- Leadership in Mentoring
- Leadership in Promotion of Diversity, Equity, Inclusion, and Respect
- Leadership in Promotion of Research Safety

Deadline: June 30, 2022

**BLACKINCHEM POSTDOCTORAL FELLOWSHIP**

Call for Applications:
BlackInChem Postdoctoral Fellowship
blackinchem.org/fellowship

The BlackinChem Postdoctoral Fellowship provides \$75,000 of support for three years. This funding can also be used to bridge to a tenure-track position at which point it increases to \$100,000 per year. Information sessions will be held in July 2022 and the deadline for a letter of inquiry is **August 1, 2022**.

[Learn more](#)

EASTERN ANALYTICAL SYMPOSIUM

Oral presentation abstracts for the Eastern Analytical Symposium are due **May 6, 2022** with poster presentation abstracts due September 5, 2022. Make sure to get your abstract submitted in time to present at the EAS this November.



EAS 2022 Oral & Poster Call for Papers: Open Now!

Oral Abstracts Due May 6th
Poster Abstracts Due September 5th

Don't miss an opportunity to present your work, network with leading analytical chemists, learn the state of the art in various areas of analytical chemistry, and otherwise have a great time!



Upcoming POLY Awards

Call for Nominations



Carl S. Marvel Award for Creative Polymer Chemistry
Award: \$3,000, Plaque, ACS Symposia, & \$2,000 Travel
Application Due: 7/1/2022

POLY Outstanding Poster Award
Award: \$250 & Certificate
Application Due: Fall 2022 (selected from Sci-Mix)

Young Industrial Polymer Scientist Award
Award: \$2,000, Plaque, ACS Symposia, & Travel Expenses
Sponsor: POLY Industrial Advisory Board
Application Due: 10/31/2022

The Herman F. Mark-Polymer Chemistry Award
Award: \$3,000, Plaque, ACS Symposia, & Travel Expenses
Application Due: 11/1/2022

POLY Fellows Award

Award: Plaque & Recognition at an ACS National Meeting
Sponsor: POLY
Application Due: 11/30/2022

For more award details: <https://polyacs.org/awards/>

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 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!

NEWS FROM OUR PARTNERS**SOUTHERN CALIFORNIA LOCAL SECTION****Broadening STEM Participation Through Intentional Exposure, Encouragement, and Engaged Support**

Speaker: **Dr. Pamela Leggett-Robinson**
PLR Consulting

Date: **Tuesday, May 17, 2022**

Time: 1:00 PM (ET) via Zoom ([registration link](#))

[Download Flyer](#)

BROADENING STEM PARTICIPATION THROUGH INTENTIONAL EXPOSURE, ENCOURAGEMENT, AND ENGAGED SUPPORT
A VIRTUAL EVENT VIA ZOOM
TUESDAY • MAY 17, 2022
4:00 - 5:00 P.M. PACIFIC TIME

Presented by:
Dr. Pamela Leggett-Robinson, PhD, CAPM
Founder & Executive Director, PLR Consulting

Many of the educational STEM settings (K-12 and higher education) serve as arenas where both academic and social inequities (and injustices) can be produced and reproduced by privileging some identities while marginalizing others. Thus, considering to create the STEM opportunity gap by way of lack of STEM exposure, encouragement, and engaged support. To effectively broaden participation and decrease the opportunity gap for these groups, current STEM environments must intentionally create and foster a culture of diversity, inclusion, and equity – one that is open, welcoming, and inspiring, to everyone. This seminar aims to build capacity for ways in which individuals and local sections can work together to broaden participation in STEM for marginalized groups through intentional exposure, encouragement, and engaged support. Join us!

Pamela Leggett-Robinson has more than 15 years of higher education experience which includes STEM academic and student success/support programming, institutional strategic planning, data analysis, educational programming (short-term), and program evaluation. Her diverse skill set is a result of serving as an academic administrator, project manager, principal investigator (grant director for STEM student and community programs, high school teacher, and lobbyist for K-20 science funding in Capitol Hill). She is a Certified Associate in Project Management and brings an exceptional level of experience, dedication, and nuanced perspective to each STEM program she serves.

Dr. Leggett-Robinson's research and scientific presentations focus on natural product chemistry, surface chemistry, student support programs in STEM education and support programming for women of color in STEM professions. She has received multiple awards for her STEM service to students and earned funding from both NIH and NSF in program funding. Her distinguished record of STEM programmatic success is well-documented in publications and presentations.

Dr. Leggett-Robinson holds a B.S. in Chemistry from Georgia State University, M.S. in Bio-Organic Chemistry from Tennessee Technological University, and a Ph.D. in Physical Organic Chemistry from Oregon State University. Dr. Leggett-Robinson is co-author of the book *Overcoming Barriers for Women of Color in STEM Fields* and co-author of book chapter "Empowering the Language of the STEM Professionals: Reflections and Insights" from *Women of Color: Women's Influence on Inclusion, Equity, and Diversity in STEM Fields*.

ACS Local Section
Southern California

This is a Southern California Section of the American Chemical Society (SCALACS) event presented under the Research, Equity, Inclusion, and Impact (REI) grant from the American Chemical Society (ACS).

**A Computational Chemistry Journey:
A Look Across the Periodic Table**

Dr. Angela K. Wilson

2022 ACS President
John A. Hannah Distinguished Professor
Michigan State University, Department of Chemistry

ACS Local Section
Greater Houston

Tuesday, May 3, 2022
6:30 pm - Networking
7:00 pm - Seminar
RSVP to Receive Zoom Meeting link

<https://acsghs.wildapricot.org/event-4766110>

GREATER HOUSTON LOCAL SECTION**A Computational Chemistry Journey: A Look Across the Periodic Table**

Speaker: **Dr. Angela K. Wilson**
Michigan State University

Date: **Tuesday, May 3, 2022**

Time: 6:30 PM (ET) via Zoom ([registration link](#))

[Download Flyer](#)

NEW YORK AREA GROUP FOR INFORMATICS AND MODELING**Can AI help learn and predict biomolecular conformations and dynamics?**

Speaker: **Dr. Pratyush Tiwary**
Date: **Wednesday, May 4, 2022**
Time: 6:00 PM via Zoom

[More info](#)

NYAGIM
New York Area Group for
Informatics and Modeling

Advances in Computational Methods for Drug Discovery

CHROMATOGRAPHY FORUM OF DELAWARE VALLEY**Delivering on the Promise of Multidimensional GC Separations for Sample Characterization**

Speaker: **Dr. Philip Marriott**
Date: **Tuesday, May 24, 2022**
Time: 7:00 PM via Zoom

[More info](#)



CALL FOR NOMINATIONS



William H. Nichols Distinguished Symposium Medal Award Presentation & Dinner 2023 Call for Nominations

120 Years
1903 - 2023

WILLIAM H. NICHOLS MEDAL FOR 2023

The New York Section of the American Chemical Society is accepting nominations for the William H. Nichols Medal Award for the year 2023. This distinguished award, established in 1902 by Dr. William H. Nichols for the purpose of encouraging original research in chemistry, is the first award that was authorized by the American Chemical Society. The award is presented annually in recognition of an outstanding contribution in the field of chemistry, and consists of a gold medal and a bronze replica. In March or April, the medals are awarded during the William H. Nichols Meeting that features the Distinguished Symposium related to the medalist's field of expertise and the Medal Award Dinner.

Investigators who have published a significant and original contribution in any field of chemistry during the five calendar years preceding the presentation meeting are eligible for consideration by the Nichols Medal Jury. The ACS York Section encourages nominations from academia, government and industry.

Each nomination requires a completed **nomination form**, biographical and professional data, and seconding letters. Since the nomination process utilizes the ACS New York Section website, please access the nomination form.

Nominations must be received by May 31, 2022. The Nichols Medal Award Jury will meet in June 2022 to select the William H. Nichols Medalist for 2023. Questions regarding the nomination procedure should be directed to the [ACS, New York Section Office](#).



NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2022

Many members of the New York Section provide their time, leadership talent, and knowledge to the New York Section. The tradition of excellence of the New York Section is attributable directly to the cumulative effect of these dedicated individuals. Each year the New York Section presents the Outstanding Service Award to a most deserving member of the section. The New York Section is now accepting nominations for this award.

A nomination letter with supporting data should be emailed to the 2022 OSA Committee Chair, [Dr. JaimeLee I. Rizzo](#). Nominations will be accepted **until June 30, 2022**.

The nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2022 will be presented at the New York Section's Sectionwide Conference in January 2023. [See previous awardees here](#).

JOB BOARD

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

Manager, Analytical Chemistry – L'Oréal

[Apply here](#)

Senior Scientists – Analytical Chemistry – PTC Therapeutics

[Apply here](#)

Entry Level Wet Chemist – Medix

[Apply here](#)

Contract Faculty Assistant Professor – St. John's University

[Apply here](#)

Safety Advisor – Columbia University

[Apply here](#)

High School Chemistry Teaching Position - Hillel Yeshiva High School, Ocean NJ

For more info, email jessie.mercuro

Chemist – Federal Aviation Administration

[Apply here](#)

Chemist (Senior) - Department of Homeland Security, Customs and Border Protection

[Apply here](#)

ACS VIRTUAL OFFICE HOURS – CAREERS IN GOVERNMENT

Join ACS Virtual Office Hours on the first Thursday of each month. These FREE virtual career guidance sessions are open to ACS members AND non-members alike. May's event covers the ins and outs of chemistry careers in government.

Date: May 5, 2022

Time: 12:00 PM ET.

[Register here](#)

Next month: [Entrepreneurship](#)



ACS Career Navigator
Chemistry for Life®

ACS Career Consultant

VIRTUAL OFFICE HOURS

Careers in Government

Thursday, May 5
12pm ET

