Celebrate Memorial Day
In a recent column I made a passing reference to a book that I might have included in my list of Great Books in Chemistry, a book on nomenclature. Upon mature reflection I have decided that the book I referred to in passing is, in fact, well worthy of inclusion in my list. It is the multi-authored “Methode de Nomenclature Chimique” by Guyton de Morveau, Antoine Lavosier, Claude-Louis Berthollet, and Antoine-Francois Fourcroy, published in 1787. The authors are listed in order of seniority by age. Each of them contributed to the text, but the first listed author, Guyton, was the leading spirit of the enterprise.

Nomenclature may be considered by many as a rather dull subject. But no less an authority than M.M. Pattison Muir, a distinguished historian of chemistry, wrote in his “A History of Chemical Theories and Laws” (1907): “to write a full description of the origin, growth and misadventures of the language of chemistry is to write a history of the science.” Full disclosure: I copied this quotation and its source from a marvelous historical work by Maurice P. Crosland titled “Historical Studies in the Language of Chemistry” published originally in 1962 and reprinted by Dover Books, with a new Preface, in 1978. It is out-of-print but worth pursuing in the on-line catalogs of used-book sales sources. Much of this column is derived from Crosland’s book and also Volume III of J.R. Partington’s “A History of Chemistry”.

To understand the significance of the Methode (as I shall refer to it) we must look back to the language of chemistry before its publication, and by that I mean the language of alchemy and chymistry, precursors to the modern science of chemistry. That language abounds with names that refer to incidental properties of elements and compounds: quicksilver for mercury; oil of vitriol for sulfuric acid; sugar of lead for lead acetate; liver of antimony for antimony sulfide; – and the list goes on and on.

One impetus for the reform of chemical nomenclature was surely the reform of botanical nomenclature initiated by Carl Linnaeus in 1758. He introduced and elaborated the now familiar binary Latin names for plants that had previously borne common names not unlike those used by alchemists for chemical materials. The common garden pea becomes Pisum sativum; the ordinary beet is Beta vulgaris. This form of plant nomenclature is in use to this day. Torbern Bergman, a Swedish chemist who knew Linnaeus, was the first to see merit in applying a similar scheme to chemical compounds. He began to call fixed air (carbon dioxide) acidum aeratum (acid air) to describe a chemical property. But his approach lacked consistency. And so we come to the Methode. Inspired in part by earlier articles by De Morveau it boldly proposes a complete reform of chemical nomenclature, particularly of inorganic compounds, introducing (in French, of course) the binary naming of compounds that we use to this day. Oil of vitriol becomes Acide sulfurique; Acide sulfureux contains less oxygen. Salts formed from the former are Sulfate; the latter Sulfite etc. About a third of the Methode is a comprehensive dictionary showing the equivalence of the new terms to those commonly in use. The new approach was presented to the Academie des Sciences in a lecture delivered by Lavosier in April 1787 titled “On the necessity of reforming and perfecting the nomenclature of chemistry”.

As is usual with any revolutionary idea the reform of nomenclature was not enthusiastically endorsed by many chemists. Resistance in the German speaking States, still holdouts for phlogiston, was especially strong. An interesting comment is contained in a letter written from Paris by Thomas Jefferson in July 1788: “One single experiment may destroy the whole filiation of his terms and his string of sulfates, sulfites…”. Jefferson concluded that the reform was premature. Nevertheless as the oxygen theory began to prevail over phlogiston so the new nomenclature began to prevail over the old. And with the introduction of a new symbolism by Berzelius in the early 19th Century the pathway to the modern expression of chemical names and formulas was beginning to open.
THE INDICATOR
Manager / Editor - LINDA ATKINS
linda.atkins1123@gmail.com
Acting Advertising Manager
DR. NEIL JESPERSEN
71 Dexter Drive
Shelton, CT 06484
Phone 516-883-7864 • Cell: 347-658-9898
jespersn@stjohns.edu

INDICATOR COMMITTEE
Chair, DR. LES McQUIRE
17 Crown Drive, Warren, NJ 07059
908-334-5473
Les@LesMcQuire.org

New York Section Rep.
DR. NEIL JESPERSEN
71 Dexter Drive
Shelton, CT 06484
Phone 516-883-7864 • Cell: 347-658-9898
jespersn@stjohns.edu

North Jersey Section Rep.
JACQUELINE ERICKSON
33 Ronald Road, Lake Hiawatha NJ 07034
973-713-8303
Jerickson@njacs.org

Web Masters
NY Section - DR. BRIAN R. GIBNEY
postmaster@newyorkacs.org
NoJ Section - PAUL TUKEY
ptukey@njacs.org

NEW YORK SECTION
https://www.newyorkacs.org
Chair, DR. RITA K. UPMACIS
Dept. of Chemistry, Pace University
One Pace Plaza, New York, NY 10038
212-346-1621 • Rupmacis@pace.edu

Chair-Elect, DR. KATHLEEN E. KRISTIAN
Associate Professor and Chair, Chemistry and
Biochemistry Department, School of Arts and
Science, Iona College
715 North Avenue, New Rochelle, NY 10801
914-633-2341 • kkristian@iona.edu

Secretary, DR. DANIEL AMARANTE
Dept. of Chemistry, Stony Brook University
100 Nicholls Road, Stony Brook, NY 11794
631-632-2043
daniel.amarante@stonybrook.edu

Section Office, BERNADETTE TAYLOR
Office Administrator
St. John’s University, Dept. of Chemistry,
8000 Utopia Parkway, Queens, NY 11439
718-777-7324 • btaylor@NewYorkACS.org

NORTH JERSEY SECTION
https://www.njacs.org
Chair, DR. MIRLINDA BIBA
Principal Scientist, Merck & Co., Inc.
126 E Lincoln Ave., Rahway, NJ 07065
732-594-9415 • mbiba@njacs.org

Chair-Elect, DR. QI GAO
Senior Scientist, Merck & Co., Inc
2015 Galloping Hill Rd, Kenilworth, NJ, 07033
908-740-2940 • Qi.gao1@merck.com

Secretary, BETTYANN HOWSON
49 Pippins Way, Morris Township, NJ 07960
973-822-2575 • chemphun@gmail.com

Section Office
49 Pippins Way, Morris Township, NJ 07960
973-822-2575 • chemphun@gmail.com

THE INDICATOR-MAY 2021

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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.
May Calendar

NEW YORK SECTION
Saturday, May 1, 2021
68th Annual Undergraduate Research Symposium (URS)
See pages 5-7.

Friday, May 7, 2021
Computers in Chemistry Topical Group
See page 8.

Wednesday, May 12, 2021
Westchester Distinguished Scientist 2021 and 2021 Student Awards
See pages 9-10.

Thursday, May 20, 2021
Organic Topical Group
See page 10.

also

Fridays, June 4, September 10, November 19, 2021
New York Section Board of Directors Meeting
See page 5.

NORTH JERSEY SECTION
Monday, May 17, 2021
North Jersey Executive Meeting
See page 14.

also

Mondays, June 14, September 27, October 18, November 15, December 13, 2021
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The Indicator is posted to the web around the 15th of the previous month at www.TheIndicator.org

Deadline for items to be included in the JUNE 2021 issue of The Indicator is APRIL 28, 2021

To Comply With the Federal Regulations Regarding Social Distancing Necessitated by the COVID-19 Virus, it became imperative to cancel, postpone or “go viral” all Section Meetings for the past year.

Details of any relevant meetings will appear in the appropriate future issues of The Indicator.
New York Meetings

https://www.newyorkacs.org

ACS, NEW YORK SECTION
BOARD OF DIRECTORS

MEETING DATES FOR 2021

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

Dates of the meetings for 2021 are posted on the New York Section website at https://www.NewYorkACS.org, below, and monthly in The Indicator. Dr. Rita K. Upmacis will chair all meetings. The board meetings will start at exactly 6:30 PM. Until further notice, meetings will be held on-line.

The Board Meeting dates for 2021 are:

- Friday, June 4, 2021   Board Meeting
- Friday, September 10, 2021   Board Meeting
- Friday, November 19, 2021   Board Meeting

68th ANNUAL ACS
UNDERGRADUATE RESEARCH SYMPOSIUM

Organized by the Student Activities Committee of the New York Section

Keynote Addresses:

"Searching for the LEGOS of Life"

Speaker:  Dr. Paul G. Falkowski
Rutgers University

and

"Venom to the Rescue: Advancing Biological and Chemical Diversity One Killer Snail at a Time"

Speaker:  Dr. Mandë Holford
CUNY Hunter College

The Student Activities Committee of the New York Section of the American Chemical Society would like to invite you to attend the 68th Annual Undergraduate Research Symposium (URS). The symposium provides an excellent opportunity for undergraduate chemistry students in the New York Metropolitan Area to present the results of their research. A remarkable feature of this meeting is that some of the students are also engaged as moderators of the scientific presentations in a variety of chemistry disciplines. Due to the Covid-19 Pandemic, this year’s symposium will be online. Presenters are asked to register as ‘Student’ and students that wish to attend the event but are not presenting may register as ‘Guests’.

Date:   Saturday, May 1, 2021,
Time:  9:00 AM – 12:30 PM
Place:  Online
Registration and Abstract Submission:
http://newyorkacs.online/URS/ (everyone who plans to attend must register)

Abstract Submission Deadline: April 2, 2021
(use template file)

Registration Deadline: April 16, 2021

Looking forward to seeing you at the 68th Annual URS!

Dr. Michele Vittadello
CUNY Medgar Evers College

Dr. Naphtali O’Connor
CUNY Lehman College

Dr. Pratikkumar Rathod
CUNY La Guardia Community College

Dr. Kevin Mark
CUNY La Guardia Community College

Co-Chairs, ACS NY Section,
Student Activities Committee

See flyers on pages 6 and 7 and Call for Abstracts on page 16.
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Deadline for items to be included in the JUNE 2021 issue of The Indicator is APRIL 28, 2021
Related to the next story, our Distinguished Scientist 2015, Dr. Kenrick Lewis, also of Momentive Performance Materials, was recently honored by a short, mostly scientific biography:

**WESTCHESTER CHEMICAL SOCIETY**

**Distinguished Scientist Award and Student Achievement Awards Dinner Meeting:**

“Trisiloxane Alkoxylates as Adjuvants for Agriculture”

**Speaker:** George A. Policello  
Research Fellow  
Momentive Performance Materials  
769 Old Saw Mill River Road  
Tarrytown, NY

**DISTINGUISHED SCIENTIST 2021:**

Mr. George Policello for *Contributions to the Development of Trisiloxane Alkoxylates in Agriculture.*

Mr. Policello had been selected as our 2020 Distinguished Scientist. Because of the Covid-19 pandemic, the Westchester Chemical Society Board of Directors had to cancel the 2020 presentation of their Distinguished Scientist Award.

**Abstract:**

Trisiloxane-based surfactants have been used for over 35 years as spray adjuvants for agricultural applications. Relative to conventional adjuvants, trisiloxane surfactants provide an extremely low aqueous surface tension (~21 mN/m at 0.1%). This surface activity, coupled with a compact hydrophobe (trisiloxane portion of the molecule), makes these unique surfactants “Super-spreaders”, where the spray droplet is transformed into a thin film on the leaf surface. Therefore, trisiloxane solutions easily wet almost any waxy leaf surface, and the overall coverage on a target plant is significantly increased. This results in spray volume reductions of up to 90%, benefitting areas where water is in short supply. Additionally, a reduction in water usage allows the grower to treat more acres per tank-load, thereby saving time, labor and energy.

Another extraordinary property of trisiloxane surfactants is their ability to promote rapid uptake of spray solutions via stomatal flooding in as little as 20 seconds. Active ingredients taken up into the plant via this pathway become immediately rainfast (resistant to wash-off), thereby reducing waste, and in some cases allowing for a reduction in pesticide usage.

Silwet L-77 adjuvant was the first trisiloxane-based surfactant developed for agricultural applications. This unique class of “Super-spreading” wetting agents was introduced into agriculture in 1985, in response to the inability of many herbicides to control gorse (Ulex europaeus), a noxious invasive weed in New Zealand. Union Carbide, in collaboration with the Forest Research Institute in NZ, quickly realized that Silwet L-77 adjuvant significantly enhanced the performance of herbicides that were previously incapable of controlling gorse. In fact, only Silwet L-77 adjuvant had the ability to effectively wet the waxy surface of gorse, thereby enabling a 70% reduction in pesticide requirements, while delivering effective control.

This presentation will detail the historical development of “Super-spreading” trisiloxane-based wetting agents, including examples illustrating how commercial growers use such surfactants as a regular part of their spray program, including their use in organic farming.

**Biography:**

George Policello is a Technology Research Fellow with Momentive Performance Materials, in Tarrytown, NY. His primary responsibilities include the direction of new product development and platform technology research programs focused on agricultural applications that enable decreased agricultural spray volumes, reduced active ingredient dosage, and improved spray control and efficiency.

George began his career in 1980 with Union Carbide in Tarrytown, focusing on the synthesis of organomodified silicones for a broad range of applications, including coatings, textiles and personal care. In 1985 he joined Lever Research in Edgewater NJ, where he studied the interactions between polyether-modified silicone surfactants and conventional wetting agents. He rejoined Union Carbide in 1987 (subsequently Crompton Corporation, OSI Specialties, GE Silicones, and Momentive Performance Materials) where he has since been responsible for the development of silicone surfactants, specifically trisiloxane alkoxylates as agricultural

(continued on page 10)
spray adjuvants. George has contributed to the understanding of the super spreading mechanism associated with these unique surfactants, as well as the role of spreading on the uptake and efficacy of agrochemicals on and into foliar surfaces. Additionally, his research on surfactant-pair interactions between trisiloxane alkoxylation and conventional surfactants has added to the understanding of how dynamic surface tension influences spray droplet adhesion on leaf surfaces.

George graduated from Mercy College in Dobbs Ferry, NY in 1979 with a Bachelor of Science degree in Biology. He holds more than 45 patents related to silicone surfactants and agricultural applications, and is the author of more than 70 external publications and presentations. Additionally George has been involved with the Silicones Environmental Health and Safety Council (SEHSC), and the Counsel of Producers & Distributors of Agrotechnology (CPDA).

**Date:** Wednesday, May 12, 2021  
**Time:** Opens 6:45 PM EDT; Meeting 7:00 (US and Canada)  
**Place:** Cloud HD Video Meeting using a Zoom Cloud Platform  
**Cost:** Free and open to the public

No password needed.  
**Join URL:**  
https://sunywcc-edu.zoom.us/j/81235674781

For further information: contact Rolande Hodel, Rolande Hodel, rrhodel@aol.com,  
Or Peter Corfield, pcorfield@fordham.edu, Phone: 914-762-4468;  
Text: 914-980-9128 or 914-218-7607.,  
Or Paul Dillon, PaulWDillon2@hotmail.com, Phone: 914-941-0890, Text: 914-393-6940

**RSVP Required to Dr. Peter Corfield**  
E-Mail: pcorfield@fordham.edu, or pwrc@earthlink.net  
For more information, contact Paul Dillon: E-Mail PaulWDillon2@hotmail.com  
Phone 1-914-393-6940

**ORGANIC TOPICAL GROUP — JOINT MEETING WITH THE NEW YORK ACADEMY OF SCIENCES CHEMICAL BIOLOGY DISCUSSION GROUP**

**Chemical Biology Discussion Group Year-End Symposium**  
**Organizers:** Yael David, PhD  
Memorial Sloan Kettering Cancer Center  
Tania Lupoli, PhD  
New York University  
Allie Obermeyer, PhD  
Columbia University  
Barbara Knappmeyer, PhD  
The New York Academy of Sciences  
Sonya Dougal, PhD  
The New York Academy of Sciences

**Speakers:** Matthew Bogyo, PhD  
Stanford University School of Medicine  
Shiva Malek, PhD  
Genentech

The Chemical Biology Discussion Group brings together chemists and biologists interested in discussing the latest breakthroughs. This year, the annual year-end meeting features two keynote speakers: Dr. Matthew Bogyo of Stanford University and Dr. Shiva Malek of Genentech.

**Date:** Thursday, May 20, 2021  
**Time:** 1:00 – 5:30 PM  
**Place:** Virtual Symposium (Webcast)  
The New York Academy of Sciences  
7 World Trade Center  
250 Greenwich Street – 40th Floor  
New York, NY 10007

**Abstract Submission Deadline:**  
March 19, 2021

**Opportunities for Short Talks!**

**Cost:** For full details on pricing, please visit www.nyas.org/ChemBio2021. ACS members may use the Priority Code ACS to avail of NYAS member pricing.

For more information and to register for the event, go to: www.nyas.org/ChemBio2021  
To become a Member of the Academy, visit www.nyas.org/benefits
CANDIDATES FOR THE NY SECTION 2021 ELECTIONS

At the January 2021 Section-wide Conference, the Nominating Committee presented the candidates for office for the 2021 elections. The biographies of the candidates will be posted on the New York Section website at https://www.newyorkacs.org/documents/2021_Candidates.pdf

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.

Electronic ballots will be sent to the membership in mid-April using SurveyMonkey and voting will be conducted according to ACS guidelines for confidentiality and security. If your e-mail address has changed, please update it on the ACS website. If no e-mail address is associated with your membership number, a paper ballot will be sent to you automatically. Members that do have an e-mail address associated with their membership number will be asked in the email if they prefer a paper ballot.

To receive all electronic messages from your New York Section, please be sure that your e-mail account will accept messages from elections@newyorkacs.org. Also, if you have opted-out of SurveyMonkey in the past, please opt-in by April 21, 2021 for the election.

Members requesting paper ballots will receive them by May 1, 2021. If any member does not receive voting materials by May 1, please contact the New York Section Office at 732-770-7324 or btaylor@newyorkacs.org

The Candidates are:

Chair-Elect for 2020 (Vote for 1)
Ping Furlan, United States Merchant Marine Academy
Mary Virginia Orna, College of New Rochelle

Treasurer for 2022 and 2023 (Vote for 1)
Rakhi Agarwal, Nassau Community College
Brian Gibney, Brooklyn College; The City University of New York

Director-at-Large for 2022 (Vote for 3)
Jaclyn Catalano, Montclair State University
Ronald D’Amelia, Retired
Nadja Grobe, Supervisor Research Laboratory, Renal Research Institute

Councilor for 2022-2024 (Vote for 3)
Donald Clarke, Fordham University
Barbara Hillery, SUNY Old Westbury
Pamela Kerrigan, College of Mount Saint Vincent
Ruben Savizky, The Cooper Union
Joseph Serafin, St. John’s University
Rita Upmacis, Pace University

Alternate Councilor for 2022-2024 (Vote for 2)
Robert Nolan, CUNY Graduate Center
Anne O’Brien, Retired

Aaron Moment, Columbia University
Joseph Ulichny, Columbia University
Joseph Wiener, PepsiCo.

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On Tuesday, April 6, 2021, the Westchester Chemical Society (WCS) held a remote (Zoom) meeting.

Jennifer M. Rampling, Ph.D., an Associate Professor of History, at Princeton University, Princeton, NJ spoke on “How to Make Gold and Influence People: Prisons as Sites of Alchemical Practice in Early Modern Europe.” Dr. Rampling’s talk explored a neglected but fascinating theme in the history of alchemy—the strategies used by alchemical practitioners to extricate themselves from prison. In early modern Europe, alchemists found themselves incarcerated for various reasons. Although basically illegal (because fears that cheap and/or bogus coinage metals could debase coinage), alchemists were not generally jailed for the practice of alchemy. Some failed to make good on their gold-making promises, some were suspected of practicing magic (although some alchemists were also interested in magic, alchemical practice was usually physical, i.e. natural not supernatural), and others simply fell into debt. Some were jailed for using bogus coinage metals to counterfeit coins, often interpreted as treason. Once confined, some drew on their practical and rhetorical skills to write their way out of trouble, addressing petitions and alchemical treatises to princes and highly-placed figures in government. Perhaps surprisingly, they often ended up being released. Often, monarchs hoped to increase their wealth with alchemically derived coinage metals. Dr. Rampling focused on English practitioners, starting in the fourteenth century when John of Walden fell foul of Edward III, and moved into the sixteenth century, when at least two alchemists were arrested as suspected conjurors under Henry VIII. Finally, the notorious Edward Kelley, best known for his collaboration with the mathematician John Dee, wrote a series of elaborate treatises to Emperor Rudolf II while imprisoned in Bohemia. Although Kelley’s “prison writings” have not been previously studied, they offer new evidence for his alchemical experiments—and show how the promise of transmutation might offer a “get out of jail free” card for beleaguered alchemists. Kelly, although a commoner, had passed himself off as of noble birth and was, for a time, on the Privy Council of the Holy Roman Empire. Of great interest during the talk, Dr. Rampling had photos of alchemical treatises and letters, some done in prison. She even had the cover and extracts from a book of alchemical poetry, “Bloomfield’s Blossoms Or, The Camp of Philosophy”, by an English Alchemist, William Bloomfield:

The Cover of Bloomfield’s Blossoms

Dr. Rampling studies the history of late medieval and early modern science and medicine, specializing in alchemy. She is the author of “The Experimental Fire: Inventing English Alchemy, 1300–1700” (Chicago, 2020, available on Amazon and Barnes & Noble), as well as numerous articles on alchemical theory and practice, including that of George Ripley (fl. 1470s) and John Dee (1527–1609). From 2013–17 she edited the history of chemistry journal, Ambix.

After the talk, there was an enthusiastic and very informative question and answer period. One of the attendees praised and recommended Dr. Rampling’s book.
Below are screen shots (all courtesy of Paul Dillon) of the speaker, Jennifer Rampling, Ph. D., the Westchester Chemical Society (WCS) co-chairs, Paul Dillon, Ph. D. and Rolande Hodel, Ph.D., the WCS treasurer and education secretary, Peter Corfield, Ph. D., the WCS recording secretary, Kay Whiten, M.S. the WCS assistant program director, Jason Poland, M.S., and a WCS director-at-large, Sr. Mary Virginia Orna, Ph.D., followed by a gallery shot of those attending with video cameras on. Some of the screen shots were taken during the meeting and some from its recording (courtesy of Rolande Hodel).
North Jersey Meetings

https://www.njacs.org

2021 NORTH JERSEY EXECUTIVE COMMITTEE MEETINGS

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meetings to discuss topics of importance to running the section and representing the membership. The team is scheduling monthly virtual meetings on Monday evenings at 7 – 9 PM (EST). See below table for the 2021 meeting dates. All ACS members are welcome to attend these meetings and become more involved in section activities. For any additional information, please contact Mirlinda Biba (NJACS 2021 Chair) at mbiba@njacs.org.

There are no other Subsection meetings scheduled for March.

2021 ACS North Jersey Local Section Executive Committee Meetings (virtual) Schedule

<table>
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<tr>
<th>Month</th>
<th>Meeting Date</th>
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<tbody>
<tr>
<td>May</td>
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<tr>
<td>June</td>
<td>Monday, June 14, 2021</td>
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<tr>
<td>September</td>
<td>Monday, September 27, 2021</td>
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<tr>
<td>October</td>
<td>Monday, October 18, 2021</td>
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<tr>
<td>November</td>
<td>Monday, November 15, 2021</td>
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<tr>
<td>December</td>
<td>Monday, December 13, 2021</td>
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Call for Nominations

COMMITTEE ON THE HISTORY OF THE NEW YORK 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 Home Page at http://newyorkacs.online/history/ under the Committee on the History of the NY Section. These landmark programs recognize achievements in the chemical sciences and related areas, in order to enhance public appreciation for the contributions of the chemical sciences to modern life.

Please consider making a nomination for an historic chemical landmark. The Committee on the History of the NY Section will consider all nominations. In addition to a particular achievement, an historic library, building or association may be worthy of this distinction.

Please send your nomination, with supporting documentation, to the Chair of the Committee, Dr. Neil Jespersen, at jespersen@stjohns.edu

ACS NEW YORK SECTION’S OUTSTANDING SERVICE AWARD FOR 2021

Each year the New York Section presents the Outstanding Service Award to a very deserving member of the section. Many members of the New York Section provide their time, leadership, talent and educational skills to the New York Section. The tradition of excellence of the New York Section is attributable directly to the cumulative effect of these individuals. Please help the New York Section to recognize the efforts of our colleagues by nominating them for this award.

Nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2021 will be presented at the New York Section’s Sectionwide Conference in January 2022.

A Nomination letter with including up to two letters of recommendation per nominee should be emailed to the Office Administrator, Ms. Bernadette Taylor at btaylor@newyorkacs.org

Deadline for items to be included in the JUNE 2021 issue of The Indicator is APRIL 28, 2021
THE WILLIAM H. NICHOLS MEDAL AWARD FOR 2022

The New York Section is accepting nominations for the William H. Nichols Medal Award for the year 2022. This distinguished award, established in 1902 by Dr. William H. Nichols, for the purpose of encouraging original research in chemistry, is the first award authorized by the American Chemical Society. It is presented annually in recognition of an outstanding contribution in the field of chemistry, and consists of a gold medal, a bronze replica and a cash award. The medals are presented at the William H. Nichols Meeting that consists of a Distinguished Symposium related to the medalist's field of expertise and a 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. Each nomination requires a completed Nomination Form, biographical and professional data, and seconding letters. Since the nomination procedure will now utilize the New York Section website, please access the forms and instructions here: https://newyorkacs.org/documents/Nichols_Nomination_Form.doc

Nominations must be received by May 31, 2021.

The Nichols Medal Award Jury will meet in June 2021 to select the Nichols Medalist for 2022.

Nominations remain active for a period of five years and additions may be made during that time. After five years, a new nomination is required. The list of previous Nichols Medal recipients can be found on our website: https://www.newyorkacs.org/nicholsmedalists.html

Questions regarding the nomination procedure should be directed to Nichols_medal@newyorkacs.org

(continued on page 16)
2021 UNDERGRADUATE AND GRADUATE STUDENT AWARDS IN APPLIED SPECTROSCOPY

Society for Applied Spectroscopy, New York/New Jersey Section

The New York/New Jersey Section of the Society for Applied Spectroscopy (NYSAS) is pleased to announce the Undergraduate and Graduate Student Awards program for Academic Year 2020 - 2021. The NYSAS is seeking nominations for its annual Student Awards that recognize excellence in the field of Applied Spectroscopy. The field of Applied Spectroscopy is broadly defined, and includes the use of traditional atomic and molecular spectroscopic techniques as well as the use of spectroscopic detectors in hyphenated instruments, microscopy, imaging and related fields.

One graduate and up to five undergraduate awards will be presented. Each candidate should be an undergraduate in at least their junior year or a graduate student majoring in science or engineering. The graduate awardee will receive a $250 cash award, a plaque and a one-year membership to the SAS. Each undergraduate awardee will receive a $100 cash award, a plaque and a one-year membership to the SAS.

Applications must include the following items:

a) A letter of nomination from the student’s research advisor or from an authorized representative of an industrial sponsor of the student’s research. (Students are not permitted to self-nominate.)

b) Letters of recommendation from at least one additional faculty member or other scientists who are familiar with the quality of the student's work.

c) Transcripts that document all university credits (unofficial transcripts are acceptable).

d) A one-page summary of the research project written by the student including reference to any of the student's published work, demonstrating applicability of the research to the field of applied spectroscopy.

e) Telephone numbers, addresses and e-mail addresses of both the student & research advisor.

Electronic submission is preferred. Please use the subject line “NYSAS Award: Last name”

The deadline for receipt of completed applications is Friday, May 21, 2021.

Please email nominations directly to:

Michael Cutrera, NYSAS Student Award Committee email: miterconsultants@verizon.net

Call for Abstracts

68th ANNUAL ACS UNDERGRADUATE RESEARCH SYMPOSIUM

Organized by the Student Activities Committee of the New York Section

Keynote Addresses:

"Searching for the LEGOS of Life"

Speaker: Dr. Paul G. Falkowski
Rutgers University

and

"Venom to the Rescue: Advancing Biological and Chemical Diversity One Killer Snail at a Time"

Speaker: Dr. Mandë Holford
CUNY Hunter College

Date: Saturday, May 1, 2021,
Time: 9:00 AM – 12:30 PM
Place: Online

Registration and Abstract Submission:
http://newyorkacs.online/URS/ (everyone who plans to attend must register)

Abstract Submission Deadline: April 2, 2021 (use template file)

Registration Deadline: April 16, 2021

Looking forward to seeing you at the 68th Annual URS!

See complete materials on pages 5-7.
Call for Volunteers

OPPORTUNITY FOR ACS MEMBERS TO AID STUDENTS 2 SCIENCE IN A HYBRID VIRTUAL LAB PROGRAM

Can you spare a few hours of your time? Do you like working with students and would you like the opportunity to share your science knowledge in a classroom? Students 2Science (S2S) is seeking volunteers to support its V-Lab program. S2S has a series of elementary, middle, and high school experiments that run in various schools across New Jersey. Members are especially needed to mentor students in participating schools to help with experiments. It’s great fun, a wonderful way to give back, and only requires 1-2 hours of your time. Experiments include CO2 to the Rescue, Curious Crystals, Mystery of M&Ms, Thermochemistry: Exothermic and Endothermic Chemical Reactions, and Glow it Up: The Chemistry of Luminol. All are age-appropriate and volunteers are provided with instructions on how to support in the classroom prior to your scheduled volunteer day.

For more information, contact Cyndi Roberson, Director of Corporate Relations, at (973) 947-4880 ext. 516 or visit the website to register for the upcoming school year: https://www.students2science.org.

Call for Applications

FREDDIE AND ADA BROWN AWARD

This Award recognizes and encourages high achieving middle- and high-school students, of African American and Native American heritage, to further develop their academic skills, with views on careers in the chemical sciences.

Award Amounts
Middle School $100.00 Check and $50.00 gift certificate : High School $200.00 Check and $100.00 gift certificate.

Who is Eligible
Middle School students enrolled in a science class : High School students who have completed a chemistry course

Grades
Middle School B Average or better in Science, B Average overall : High School B Average in Chemistry, B Average overall

Letter of Recommendation
Math or Science/Chemistry Teachers or Guidance Counselor

Statement
Middle School “Why I Like Science” : High School “Why I Like Chemistry”

Selection Criteria
Applicants must be African American (Black) or Native American (including Pacific Islander) or of mixed race.

Transcript
Official transcript required.

Financial Need
Not Required.

Applications available on the web: www.njacs.org/freddieadabrown or from your school guidance office.

Due Date
Completed Applications must be postmarked no later than March 31 Annually

Questions: Contact Jeannette Brown Jebrown@infionline.net or (908) 239-1515.