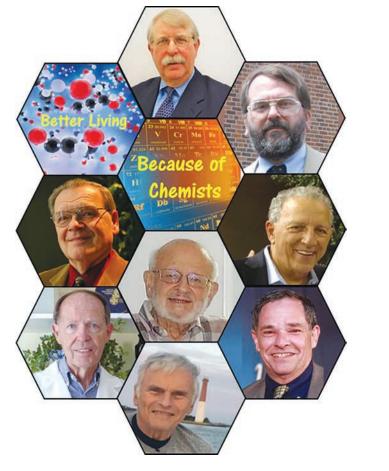


# MAY 2020

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The North Jersey Section of the American Chemical Society Recognizes Its 2020 Fifty, Sixty and Seventy Year Members



See write-ups on pages 12-14.

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### THIS MONTH IN CHEMICAL HISTORY

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

In a recent column I briefly mentioned the chemist Fajans, and suggested he was worthy of a full column. So here it is. I start with a recollection of my university's inorganic chemistry course in the early 1950s. Sobering to reflect that was 70 years ago. In addition to hearing about crystal field theory, a brand new way of thinking about coordination compounds, we were taught Fajans' rules. These rules indicate whether a bond between two atoms is likely to be covalent or ionic. Factors indicated for high positive charge; small cations; and large anions. For example Al(III) and I- form aluminum iodide, which is likely to be covalent. Now-adays we talk about hard and soft acids and bases, but that is a re-statement of Fajans' rules.

Now to the man himself. Kazimierz Fajans, known after he moved to the U.S.A. as Kasimir Fajans, was born in Warsaw in May 1887 to a Jewish family. At that time Poland had no independent identity, being partitioned between Germany and Russia. Fajans completed high school in Warsaw but studied chemistry at universities in Leipzig, Heidelberg, and Zurich where he earned his Ph.D. in 1909. He then moved to Manchester, England where he worked in Rutherford's group and began research into radioactivity. Colleagues included Moseley and Soddy. He determined the half-lives of the isotopes in the decay series uranium-actinium and thorium. He returned to Karlsruhe, continuing radioactivity research, and in 1913 in collaboration with Goehring he discovered the new element protoactinium. Independently of, and simultaneously with, Soddy he announced the law of radioactive shifts that rationalizes the products of transmutation depending on the particles emitted during radioactivity.

In 1917 Fajans was called to Munich where he headed the faculty of Physical Chemistry. In 1932 a grant from the Rockefeller Foundation established the Institute of Physical Chemistry of which he was named Head. His work from 1919 on was concerned with crystal structure and theories of chemical bonding. He also did work on the thermodynamics of crystals; and adsorption. He discovered and applied adsorption indicators. It was in this inorganic chemistry context that he formulated the rules mentioned above in 1923. But by 1935 Fajans' position became untenable because of his Jewish background. He left Germany; spent a short time in Cambridge, England; and then joined the faculty of the University of Michigan at Ann Arbor where he spent the rest of his career – and life. There was a cyclotron at the University and Fajans resumed work on isotopes discovering a new radioactive lead isotope, and a new isotope of rhenium. In 1959 he was named an honorary member of the Polish Chemical Society. Although he retired in 1957 he kept working, particularly on chemical bonding theory, until his death in 1975 at the age of 87.

Although we now remember Fajans for his law of radioactive change; his rules of inorganic bonding; and his work on thermodynamics of crystals he believed that his most important contribution to chemistry was the now almost forgotten quanticule theory. He developed this bonding theory in a series of talks and articles primarily from 1943 to 1949. The idea was first presented publicly at an ACS meeting in 1943. Molecules are constituted of nuclei and quanticules interacting electrostatically. A quanticule is a carefully defined group of electrons. To take the hydrogen molecule as a simple example it can be written as H+ (e-)2H+ where the two electron quanticule belongs to both atomic cores and the electrostatic repulsion of the two positively charged cores is overcome by the attractions between the cores and the quanticule. In a series of papers the theory was expanded to include not only inorganic compounds but also organic compounds.

Unfortunately for Fajans his timing was off. Chemists of the period were debating the rival claims of valence bond theory (Pauling) and molecular orbital theory (Mulliken) and paid little attention to quanticules. Fajans bonding theory still lies neglected and outside the main stream of chemistry. However the impressive positive contributions of Kasimir Fajans to chemistry mean that his name belongs in the pantheon of great chemists.

(For a more detailed examination of quanticule theory I recommend the article "Reception of Kasimir Fajans's Quanticule Theory of the Chemical Bond; A Tragedy of a Scientist" by Jozef Hurwic in J. Chem. Educ. 1987, 64,2,122.)

#### THE INDICATOR-MAY 2020

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#### CONTENTS

Advertisers' Index
Call for Applications
Call for Nominations
Call for Volunteers
MARM Exhibitors 20-21
New York Elections
New York Meetings
Nichols Symposium
North Jersey Meetings 5-6
North Jersey 50-60-70 Year
MembersCover, 12-14

#### EDITORIAL DEADLINES

June	
September	
October	
November	
December	
January 2021	
February 2021	
March 2021	
April	
May	

April 28 July 28 August 28 September 28 October 28 November 28, 2020 December 28, 2020 January 28, 2021 February 28 March 28

# Visit Us www.TheIndicator.org

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Members should register their email addresses at

#### https://www.acs.org/editmyprofile.

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

# **May Calendar**

# NEW YORK SECTION

Rescheduled date tbd New York Nanoscience Discussion Group

See page 16.

Fridays, June 5, September 11, November 13, 2020 New York Section Board Meetings See page 15.

Thursday-Friday, June 4-5, 2020 Biochemical Topical Group See pages 16-17.

Friday, October 23, 2020 Nichols Symposium See pages 20-21, 34.



# NORTH JERSEY SECTION

Tuesday, May 12, 2020 (Dr. P. Jane Gale Event) North Jersey Mass Spectrometry Discussion Group See page 5.

#### also

Tuesdays, June 9, September 15 (Symposium/Vendor Show), October 13, December 8, 2020 North Jersey Mass Spectrometry Discussion Group See page 5.

Thursday, September 10, 2020 North Jersey Drug Metabolism Discussion Group See page 6.



# ₩

# **Ad Index**

CUNY	16
Eastern Scientific	
Micron	17
Robertson	24

To Comply With the Federal Regulations Regarding Social Distencing Necessitated by the COVID-19 Virus, it became imperative that the New York and North Jersey Sections cancel or postpone all Section Meetings for the month of April 2020.

Details of any relevant meetings will appear in the appropriate future issues of *The Indicator*.

Any May or JuneMeeting Notices announced in this May issue of *The Indicator* are subject to the extention of these same Social Distencing Regulations.

# - North Jersey Meetings

# https://www.njacs.org NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership.

All ACS members are welcome to attend this meeting and to become more involved in section activities.

Date: Next meeting tba

Time: 6:30 - 8:30 PM Place: Seton Hall University Jubilee Hall, Room 132 400 South Orange Avenue South Orange, NJ 07079

To connect to the meeting remotely, please contact Cecilia Marzabadi at cecilia.marzabadi@gmail.com for information.



# NoJ MASS SPECTROMETRY DISCUSSION GROUP

#### Special Event Meeting: "Celebrating Some of the Rich History and Community in Mass Spectrometry"

The NJMSDG is very pleased and excited this year to host a Special Event Meeting that highlights, as well as celebrates, some of the major events in the history of mass spectrometry. The event title will likely be shortened to simply 'History Night' as we welcome Dr. P. Jane Gale, the current ASMS Archivist/Historian, who will present 'Decade by Decade: An Historical Review of Mass Spectrometry and ASMS in the Second Half of the 20th Century'. As Dr. Gale has often observed, "Community has been such an important part of our profession," and our community is excited to have her return to NJ to share how ASMS is preserving and presenting the researchers, the instrumentation developments, and the scientific communities that have provided such a powerful analytical tool for our complex applications and most difficult research problems. We look forward to learning how ASMS captures and presents this rich story as Dr. Gale describes four broad topics covered by the ASMS history poster collection: 1) the History of ASMS, 2) Member Interactions and Giants in Mass Spectrometry, 3) the History of the Science of Mass Spectrometry and 4) the History of Commercialization and explores the evolution of the science and the Society over the last 70 years through a more in-depth look at the ASMS Anniversary posters.

As a little taste of our very own history, it should be noted that Dr. Gale was a member of NJMSDG during the time she lived in New Jersey. When she, joined in 1980, 40-50 attendees gathered each month at one of several locations, ranging in New Jersey geography from Princeton to Florham Park. With fellow NJMSDG member Dave Kemp, Dr. Gale co-chaired the group from 1981-1984 after the two tied in the election for the discussion group's next leader.

Dr. Gale spent her career working in the field of mass spectrometry, first at RCA Laboratories in the Materials Characterization group and later at Bristol-Myers Squibb, where she oversaw the development of quantitative bioanalytical assays to support clinical trials. She subsequently served as chief operating officer at Virgin Instruments (now Simultof) and later as Director of Educational Services at Waters Corporation.

At our upcoming meeting, as we enjoy a time of fellowship and looking back over the historical development of mass spectrometers, we will also announce the winner of our contest for the submission of the 'oldest working mass spectrometer'. Pictures and provenances can be sent to **ghall@chem.rutgers.edu** up to one (1) day before the meeting.

Kathleen Anderson NJMSDG Director of Communications

#### Date: Next meeting tbd

- Times: 5:30-7:00 PM Social and dinner 7:00 PM - Presentations start
- Place: Somerville Elks Lodge 375 Union Avenue Bridgewater NJ.

Future Dates: Tuesdays, June 9, September 15 (Symposium/Vendor Show), October 13, December 8, 2020 (2nd Tuesday each month)

Times and Place: As above.

# *NoJ DRUG METABOLISM DISCUSSION GROUP*

2020 Spring Symposium: "Novel Drug Delivery Approaches"

Date: Thursday, September 10, 2020 (Postponed from April 30 due to COVID-19 Virus) Times: 8:00 AM – 4:00 PM Place: The Palace at Somerset Park

# NORTH JERSEY NMR TOPICAL GROUP

The NMR Topical Group held its February monthly seminar at Rutgers University in the Department of Chemistry and Chemical Biology. The meeting was started by Dr. Allen N. Jones, ISAAC Program Director, sharing with the audience the impact of Students 2 Science program on the middle and high school students, as well as different ways of participation in the volunteering activities. The main talk was given by Dr. Abby R. O'Connor, Associate Professor, Department of Chemistry, The College of New Jersey and illustrated her recent work on the evaluation of sulfonamide containing ligand scaffolds in catalytic base-free transfer hydrogenation. In her talk, Dr. O'Connor highlighted the impact of structural rigidity modifications in linkers, between the sulfonamide and pyridine moieties, on the ligand catalytic activity. Moreover, she introduced preliminary mechanistic and kinetic findings explaining as to why these systems operate under base-free conditions.



Image 1: Snapshot of Dr. Abby R. O'Connor presentation.

(Photo courtesy of J. Sikorska)



Image 2: Snapshot of Dr. Allen N. Jones presentation.

# NORTH JERSEY WOMEN'S CHEMIST COMMITTEE – JOINT SESSION WITH EAS – MEETING OF NOVEMBER 18-20, 2019

Eastern Analytical Symposium and Exhibition Princeton, NJ Nov 18-20, 2019						
EAS Session: The Evolving Roles of Women in Science						
Date: Wednesday, November 20, 2019   Venue: Crowne Plaza Princeton-900 Scudders Mill Road, Plainsboro, NJ   Register: easinc.org						
Sponsors: North Jersey Women's Chemist Committee in conjunction with the North Jersey American Chemical Society Breakfast: 7:30am - 8:00am						
Session: 8:30 am - 11:30am	North Jersey Section American Chemical Society					
Keynote: From Lab to Leadership: The Journey of an Analytical Chemist	Caroline McGregor, PhD					
Our Past and Bright Future	Susan Olesik, PhD					
An Industrial Chemist's Career: Expectations, Experiences, Opportunities and Surprises	Mary Ellen McNally, Ph.D					
Intrinsic Values: A Career Odyssey	Susan Baker, PhD					
Career Adventures: Aha Moments and the Joy of Navigating Two-way Streets	Adrienne Tymiak, PhD					

(continued on page 8)

# NORTH JERSEY WOMEN'S CHEMIST COMMITTEE – JOINT SESSION WITH EAS - NOVEMBER 18-20, 2019

(continued trom page 7)

North Jersey Women's Chemist Committee (NJACS) and the Eastern Analytical Society (EAS) bonded together and hosted a four hour breakfast and lecture session on The Evolving Roles of Women in Science at the Eastern Analytical Symposium on November 19, 2019.

This event showcased five very accomplished women in science representing disciplines from neuroscience to analytical chemistry and academic and industrial backgrounds. The diverse group represented women at various stages of their careers and gave attendees a chance to gain perspective from women relatively early in their careers to those after retirement.

Each scientist shared her personal experiences and the unexpected quantum leaps, and how she reacted enabling her to regain her work/life balance and adjust to a new equilibrium. Each presentation showed the audience why each speaker is considered an advocate for women in the chemical sciences left attendees with a positive message and offered mentorship to those who expressed need and interest after the session.

#### From Lab to Leadership: The Journey of an Analytical Chemist

#### Keynote Speaker: Caroline McGregor, PhD

We are all shaped by our decisions and molded by our environment. In her talk, Caroline shared her own career journey as an analytical chemist, discussing how self-awareness, authenticity, and a willingness to take different roles and make some tough choices along the way have allowed her to move from the lab to leadership, and to learn, to grow, and experience every day why she chose chemistry: to deliver science that helps people.

She shared her personal struggles overcoming the negative perceptions and challenges she faced as an introvert and how she over them and found a way to "be heard". She also shared ways in which we all could communicate better with each other create more positive or effective interactions.

Caroline McGregor is Vice President, Analytical Research & Development at Merck. She has been a scientist and leader at Merck Research Laboratories for 18 years, first as an Analytical Development and Preformulation Scientist in the United Kingdom before relocating to the United States.

#### Career Adventures: Aha Moments and the Joy of Navigating Two-Way Streets

Speaker; Adrienne Tymiak

- Science and Technology Advisor
  - Retired BioPharma R&D Executive from Bristol-Myers Squibb

Adrienne Tymiak is the former Executive Director of the Bioanalytical and Discovery Analytical Sciences department at Bristol-Myers Squibb. With degrees in Biochemistry, Chemical Oceanography and Organic Chemistry, she began her career as a natural products chemist in drug discovery. Today, Adrienne serves as a technology advisor for industry and academia, as a board member for nonprofit organizations serving youth (HiTOPS and Collective Success Network), and as a mentor for early career scientists and future leaders.

As a first-generation scientist, Adrienne had little in the way of role models. As a result, her career in the pharmaceutical industry took twists and turns and benefited from some luck along the way. She shared that throughout her career journey, she followed her interests, practiced the discipline of continuous learning and used her unique talents to make a difference.

In her case, the skills she developed while cooking, playing volleyball and beachcombing also applied in the professional setting and boosted her problem solving and logistical, technical and people skills. She shared that as her career unfolded, she continued to reflect on her circumstances and redirected her career based on personal insights and aha moments.

#### THE INDICATOR-MAY 2020

Once she became the leader of a multi-site research team, she could see that every scientist offered unique superpowers. She also saw that diverse teams that worked together with open communications, coordination of efforts and cooperation were more innovative and efficient and had more fun in the process! Now, as an adviser for industry and academia and as a mentor for next generation leaders, She appreciates that each professional interaction is a "two-way street" where a scientist can both give and receive insights regardless of their career stage. Her talk drew upon her personal experiences and observations to reflect on the evolving role of women in science and the joy and potential rewards of actively navigating "two-way streets" throughout one's career.

#### **Our Past and Our Bright Future**

Speaker: Susan Olesik The Ohio State University, Department of Chemistry and Biochemistry

The proportion of women in Analytical Chemistry continues to increase in industry and academia. Susan's talk included data highlighting changes that have occurred in number of women analytical chemists. She shared that while the numbers of women analytical chemists have increased, the progress has been slow but nonetheless progress continues. As we look back, on how progress has occurred to facilitate the increasing numbers of women analytical chemistry, it becomes clear that Analytical Chemistry has its own "hidden figures" who made substantial discoveries to move our science forward. In addition, many of these women provided mentoring and career assistance that assisted others in joining the field and advancing into leadership positions. Taking note of the impact of these individuals, next the unique science of a few of our current leading female analytical chemists are described with illustrations of their accomplishments in the lab as well as their impact in assisting the next generation of women chemists. Finally, to the complete the presentation, she shared examples of significant science that current analytical chemists need to address to define a bright future to next generation.

Dr. Olesik received her A.S. from Vincennes University B.A. from DePauw University and her Ph.D. from the University of Wisconsin-Madison, under the auspices of James W. Taylor in field of analytical mass spectrometry. After that she became a faculty member at The Ohio State University. She is currently the Dow Professor and Chair of the Department of Chemistry and Biochemistry. She continues as the Director of the Ohio House of Science and Engineering (OHSE), a K-16 science outreach center.

#### An Industrial Chemist's Career: Expectations, Experiences, Opportunities and Surprises

Speaker: Mary Ellen McNally

FMC Agricultural Solutions, Stine Research Center

Mary Ellen's talk shared that being a woman in science is no longer a rare occurrence but there are still times when you will find yourself as the only woman in the room. In her presentation, she shared her career experiences in long term technical and managerial roles, career choices and opportunities via a career roadmap.

She discussed her career road maps explaining the detours, as well as via personal experiences how to make opportunities that might not be at first glance the best fit, into roles you desire.

The audience take away was that although expectations are sometimes overturned because of circumstances, the unplanned alternate experiences can be more rewarding and rewarded. Discussions on planning your day to account for all your interactions, scheduled and unscheduled and how to make the most from both are included. This is an overview of decisions to be made that will help you focus the direction of your career as a woman scientist.

Dr. McNally is a Global R&D Fellow at the Stine Research Center for FMC Corporation. Mary Ellen was employed by DuPont for 33 years before joining FMC. McNally has led teams on New Emerging Technologies and a team of inter-disciplinary scientists from three universities

# NORTH JERSEY WOMEN'S CHEMIST COMMITTEE – JOINT SESSION WITH EAS - NOVEMBER 18-20, 2019

#### (continued trom page 9)

and DuPont on a NSF GOALI project. Dr. McNally was named to the Analytical Scientist Power List, as one of the Top 50 most influential women in the analytical sciences.

#### Intrinsic Values: A Career Odyssey

Speaker: Susan Baker Janssen R&D

Susan had a more analytical approach and shared that when most of us choose a field and begin our education, we have the intention to pursue a career in our direct area of study. Many of us, including myself, ultimately land in a vocation that is quite different from where we started or even far outside our training. In retrospect, careers are often shaped more significantly by our intrinsic values than our training. Synergy may or not exist between the two. Our intrinsic values interact with evolving extrinsic political, social, and corporate cultures at key points in our career development. The outcomes are often additionally shaped by traditional privilege and bias categories such as age, gender, and race. Bias categories are subject to, in principle, laws and policies which also evolve. Culture and privilege have historically made it difficult for women and other demographic groups to succeed in science, technology, engineering and math (STEM) fields. While the environment is changing, difficulties still exist. From conversations with others, self-education, and her own experiences, she shared insights she has learned along the way.

Dr. Susan Baker is currently a Director at Janssen R&D with over 25 years' experience in scientific research and management predominantly in the Pharmaceutical sector.





# INVITATION TO JOIN THE NORTH JERSEY WOMEN CHEMISTS' COMMITTEE

The next proposed event is at the MARM on June 12th. We have a 90 minute slot to do with as we will.

### Theme: "Continuing with the Evolving Roles of Women in Science"

### Proposals:

- 1. 1-2 lectures (20-30) minutes, then networking
- 2. Speaker blitz (7-8 presenters), 3 slides each then networking session
- 3. Panel discussion 3-5 panelists then networking session
- 4. Open to other possibilities

Potential Events will be as follows and I will be sending out a survey to see which events are the favorites.

Wine — A Sensory Adventure Chocolate — Chemistry Can Be Addictive Beer — What's Hopp-ening? Pottery — The Chemistry of Glaze Gastronomy or Food Event? National Chemistry Week Chem Expo Make your own make-up/candle/soap What's That Smell? Science of Fragrance?

What's That Smell? Science of Fragrance? Help you pick your signature scent

# 1. WINE: A SENSORY ADVENTURE - WCC REACTIVATION EVENT.

Was done in 2018 and very well received.

- a. This event will feature Kelly Jones the founder of Kelly&Jones where she will share her inspirational story and her curated fragrance wine creations and pair them with wine. Kelly has been featured in Food and Wine magazine and on the Food Network. Her unique perspective on wine takes away the stuffiness for wine beginners while taking the game up a notch for the experienced wine connoisseur.
- b. \$35-45 includes wine, light food, dessert and gift.
- 2. Chocolate Event: webinars available
- 3. Joint event with YCC for mentorship
- Pottery Event: www.AmyLeepottery.com The Chemistry of Pottery and Glazing, Amy Lee Pottery
- 5. Brewery Event: more webinars
- 6. Cooking Class?
- 7. Chem Expo Event

Lauren Castelli ACS North Jersey Women Chemist Committee Chair formulatornova@yahoo.com 908-892-9893

# THE NORTH JERSEY SECTION RECOGNIZES ITS 50, 60, AND 70 YEAR MEMBERS FOR THEIR YEARS OF SERVICE

Congratulations and thank you for your dedication and your contributions to the Society.

#### 50 Year Members

Dr. Walter G. Blenderman Mr. Angelo Matthew Diana Dr. Gail D. Mulligan Disalvo Dr. Elizabeth K. Drenchko Mr. Thomas Allan Farrington Mr. Michael Philip Friedberger Mr. Robert Rhoades Goodrich, Jr. Dr. Randolph Louis Greasham Dr. Ravindra Nath Guthikonda Mr. Adel Hanna Mr. Steven James Hildebrandt Dr. Raymond Walter Kosley, Jr. Mr. Karl Lifschitz Dr. Percy Sarwood Manchand

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# THE NORTH JERSEY SECTION OF THE AMERICAN CHEMICAL SOCIETY RECOGNIZES ITS 2020 FIFTY, SIXTY AND SEVENTY YEAR MEMBERS

The North Jersey Section of the American Chemical Society wishes its Fifty, Sixty, and Seventy Year Members a Happy Anniversary! Through the years, these members have been "improving peoples lives through the transforming power of chemistry." Their diligence and dedication to the science are an inspiration to us all. Below, please enjoy reading about the sensational careers and interests of nine of our honorees. Be on the lookout for more information from other honorees in future issues of *The Indicator*.



**Dr. Walter G. Blenderman** joined the American Chemical Society during his senior year at the University of Delaware. He did his graduate work with Prof. Madeleine M. Joullié at the University of Pennsylvania on Birch reductions of thiophene compounds and received his Ph. D. in the fall of 1981. He started working in the Medical Research Division of American Cyanamid (Lederle Labs) in late 1981, at their Bound Brook facility, in the process development group. In 1992 Cyanamid closed the Bound Brook location and relocated to the Lederle Labs location in Pearl River, New York. American Home Products (AHP) bought Cyanamid in 1994. The

pharmaceutical arm of AHP was Wyeth-Ayerst. AHP eventually sold off all its business lines except the pharmaceuticals, which then became known as simply Wyeth. An adverse business climate led Wyeth to downsize in late 2002. Walter then participated in New Jersey's alternate route program for teacher training and accepted a position teaching chemistry and physical science at North Plainfield High School. Walter taught there for eight years, including three in which he taught Advanced Placement Chemistry. He retired from teaching at the end of the 2010/11 school year. Since then Walter has spent most of his time on two principle hobbies: bird-

#### THE INDICATOR-MAY 2020

ing, including an annual hawk migration count at Chimney Rock in Martinsville, and genealogy, where he has been able to trace his ancestors back as far as 17th century Germany, Plymouth, Massachusetts (sadly, not to the Mayflower, but the Fortune, the 2nd ship in 1621), and further back in England as far as the 14th century. A 10-month-old grandson now occupies a good bit Walter's and his wife's time.



**Dr George L. Cohen** was introduced to the use of a computer in the chemistry lab by his mentor, Dr. Milton Kerker at Clarkson College (now University). George's career spanned from 1962 until 2008, during which time he was able to innovate lab data acquisition, develop formulation database storage and teach short courses in laboratory computer use years before it became ubiquitous.



**Dr. Edward Grabowski** retired as Vice President of Chemistry (Process Research) in 2004 from the Merck Research Laboratories, a Division of Merck & Company, Inc. in Rahway, NJ after almost thirty-nine years of service. He graduated with a B.Sc. in chemistry from the Massachusetts Institute of Technology in 1961 and received his Ph.D.in Organic Chemistry from the University of Rochester in 1965. He then joined the Process Research Department at the Merck Research Labs. His chemical contributions are reflected in the manufacturing processes for the following Merck drugs: AGGRASTAT ®, CLINORIL ®, FOSAMAX ®, PRIMAXIN ®, PROSCAR ®, STOCRIN ®, and SITIGLIPTIN ®. He served on the Editorial Board for Or

ganic Synthesis, theAdvisory Board for the ACS Petroleum Research Fund and the Advisory Board for the NSF's CENTC Program. He also served a six-year term as Chair of the ACS PRF. In retirement he has been a consultant in chemical development, and presented a short course on such for the ACS. Dr. Grabowski is a co-author on approximately 100 research papers and reviews, a co-inventor on more than 50 US patents, and has presented over 150 invited lectures at symposia and universities over the years. In 2001 he received the Award for Lifetime Scientific Achievement from the North Jersey Section of the American Chemical Society and was the Devon W. Meek Lecturer in Chemistry at the Ohio State University. In 2005 he was the Lambert Lecturer at Boston University and the Organic Synthesis Lecturer at the University of Illinois, and received the Distinguished Scholar Award from the University of Rochester in May of 2005. His non-chemistry pursuits include a serious interest in classical music, and the philately and postal history of the French Colonial Empire. Relative to the latter, he was elected to membership in the Académie de la Philatélie in France in July of 1999. He met his wife Lenore Rampino in high school junior year English class while she read the part of Emily and he that of George in Thornton Wilder's Our Town. They were married in 1961 and have one son, David Grabowski, who has expressed a serious passion for skydiving and its related activities in addition to an interest in computer engineering.



**Dr. Randolph L. Greasham** is an independent consultant, specializing in Fermentation Process Research and Development for biologics and secondary metabolites. After receiving his Ph. D. degree in microbiology from Hahnemann Medical College, he joined the Biochemical Engineering Department at MIT as a Postdoctoral Fellow. In 1972, he joined the Fermentation Group at International Minerals and Chemical Corporation, and after ten years, he joined Merck & Co. as Director of Bioprocess R&D. After retiring from Merck in 2004, he began consulting worldwide. During the last seven years, the lion's share of his consulting has been with Scynexis

& Co., developing an antifungal drug candidate. Randy has authored/co-authored more than sixty-five papers in fermentation microbiology/biochemistry and biocatalysis.

# NoJ 50, 60, AND 70 YEAR MEMBERS

(continued from page 13)



Born in Brooklyn, NY, **Dr. Seymour D. Levine** received a B.Sc. in Pharmacy from Brooklyn College of Pharmacy and a Ph.D. in Pharmaceutical Chemistry from the University of Wisconsin, School of Pharmacy. He began his career at The Squibb Institute for Medical Research, well before it became Bristol Myers Squibb, and worked on steroids, non-steroidal anti-inflammatory agents and the synthesis of secretin. He rose to the position of Director of Chemical Development. Sy then joined Ortho Pharmaceutical Corporation, a JNJ company, as Director of Chemical Research. His seminal work was leading the group that isolated and iden-

tified the structure of zoapatanol, the novel oxepane diterpenoid, and synthesized it. He retired from JNJ as Executive Director of Research Services. He then joined Garden State Nutritionals, a division of Vitaquest International, as Vice President of Scientific Affairs. For many years Sy has been active with volunteer work for the Multiple Sclerosis Society. For eighteen years he participated in a 173 mile charity bike ride for the Society, that started in Sandy Hook and ended in Cape May, and for five of those years he was the leading fund raiser. The NJ Multiple Sclerosis Society honored him for his dedication at a luncheon. His hobbies include swimming and reading. He and his wife, Susan, have three children and five grandchildren.



Mr. John V. Pascale graduated with a masters in organic chemistry from Stevens Institute of Technology. He worked as a chemist at Allied Chemical Corporation and International Flavors and Fragrances, where he was cited in numerous patents and wrote a number of scientific papers, one of which was the structure elucidation and synthesis of the lachmatory factor in onions. He became a member of the American Society of Perfumers, where he served as president. John created a number of nationally known fragrances over a 50 year career. John is currently a master perfumer at Phoenix Fragrances. Perfumery continues to be his passion and his

hobby, and he continues to work as a perfumer three days a week. Other hobbies are playing golf, traveling around the world and reading.



**Dr. Irwin Bruce Silverstein** is president of IBS Consulting in Quality, LLC. He worked in R&D at M&T Chemicals and GAF and then moved to Quality. After leaving industry, he has consulted on Quality and Regulatory requirements for excipient ingredients. He has also worked on the development of guidelines and the American National Standard for excipient GMPs. Along with consulting, Irwin is an auditor for the USP Dietary Supplement Verification Program.



**Dr. Kenneth Edwin Voss** received a B. S. in Chemistry from the University of Nebraska, Lincoln in 1969, and a Ph. D. in Inorganic Chemistry from the University of Kansas, Lawrence in 1974. He was a Postdoctoral Fellow at lowa State University in Ames, IA from 1974-1976. Kenneth joined Engelhard Corporation, which is now BASF, R&D in Iselin, NJ in 1976 and retired from BASF as Senior Principle Scientist in December 2019. His initial work at Engelhard was in New Business Research covering areas such as sulfur adsorbents for coal combustion and intermediate strength proppants for oil recovery in wells. Focus shifted to development of emissions control catalysts for Diesel engines in 1989 and continued at BASF

until his retirement at the end of 2019. He is inventor/co-inventor of over 30 US patents and numerous foreign patents. In 2018 the Research and Development Council of New Jersey recognized Kenneth, co-inventor of US patent 9,333,490 with the prestigious Thomas Alva Edison Patent Award for outstanding environmental contributions.

# **New York Meetings**

### https://www.newyorkacs.org

# ACS, NEW YORK SECTION BOARD OF DIRECTORS

#### **MEETING DATES FOR 2020**

The dates for the Board of Directors Meetings of the ACS New York Section for 2020 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 2020 are posted on the New York Section website at https://www.newyorkacs.org below, and monthly in *The Indicator*. Dr. Ruben Savizky will chair all meetings. Refreshments will be available starting at 6:00 PM and the board meetings will start at exactly 6:30 PM.

The Board Meeting dates for 2020 are:

#### Friday, June 5

Friday, September 11 Friday, October 23 (Nichols Symposium) Friday, November 13

All meetings will take place at Cooper Union, 41 Cooper Square, New York NY 10003. The Nichols Symposium will be held at the Crowne Plaza Hotel, White Plains, NY.

#### Directions

http://cooper.edu/admissions/visit/location-and-directions



### WESTCHESTER CHEMICAL SOCIETY

#### **Distinguished Scientist Award**

With regrets, the Westchester Chemical Society has cancelled the Distinguished Scientist Awards Dinner and Meeting, scheduled for April 23, 2020. The Westchester Chemical Society Board of Directors has designated Mr. George Policello, who had been chosen as our Distinguished Scientist 2020, as our Distinguished Scientist 2021. The details of the 2021 meeting have yet to be determined. To the extent that faculty in local colleges and high schools are able to name Student Awardees, those students will be sent certificates.

# WESTCHESTER CHEMICAL SOCIETY

With regrets, the Westchester Chemical Society has cancelled and, is hopefully just postponing, its **Science Café** that had been scheduled for March 18, 2020 at the Stone Manor Restaurant in Hawthorne, NY. The discussion leader was to have been Monona Rossol and the topic was "Safety, Fire, and Chemical Hazards in Special Effects". A rescheduled date is yet to be determined.



# THE HUDSON-BERGEN CHEMICAL SOCIETY AND THE SCHOOL OF NATURAL SCIENCES OF FAIRLEIGH DICKINSON UNIVERSITY

#### The 22nd Annual Student Research Symposium

The Hudson-Bergen Chemical Society and the School of Natural Sciences of Fairleigh Dickinson University announce that The 22nd Annual Student Research Symposium scheduled for April 24, 2020 was postponed to the fall of 2020 (date to be announced).



# NY ACS METRO WOMEN CHEMISTS' COMMITTEE

Opening Up the Envelope: Reading Out Mysterious Membrane Machinery in the Human Pathogen *Mycobacterium Tuberculosis* 

The April 29, 2020 meeting has been postponed until a future date is determined.



### EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

To Human Resources Departments in Industry and Academia

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area. If you have

(continued on page 16)

# EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

(continued on page 15)

job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to hessytaft@hotmail.com.

Candidates from our roster who meet the requirements you describe will be asked to contact you.



### NEW YORK NANOSCIENCE DISCUSSION GROUP

#### Hosted by the New York University Department of Chemistry

Speakers to be announced.

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology,



chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

#### Date: Rescheduled date tbd

Times: Refreshments at 7:00 PM Science at 7:30 PM

Place: NYU Silver Center Room 1003 (10th floor) 31 Washington Place New York, NY

#### **Topical Group Page**

https://www.newyorkacs.org/grp\_nano-tech.php



# BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP

#### Phenotypic Drug Discovery: Leveraging Computational Tools

Organizers: Kira A. Armacost, PhD Merck

> Timothy J. Cardozo, MD, PhD New York University

Ye Che, PhD Pfizer

Paul A Clemons, PhD Broad Institute of MIT and Harvard

Guanglei Cui, PhD GlaxoSmithKline

Olivier Elemento, PhD Weill Cornell Medical College

Adam Gilbert, PhD Pfizer

Susan Pieniazek, PhD Bristol Myers Squibb

Marie-Claire Peakman, PhD Pfizer

Marco Prunotto, PhD Roche

Alison Carley, PhD The New York Academy of Sciences

Sonya Dougal, PhD The New York Academy of Sciences Keynote: Michael A White, PhD Pfizer

> Olga Troyanskaya, PhD Princeton University

Speakers: Andrea Califano, PhD Columbia University

> Yolanda Chong, PhD Recursion Pharmaceuticals

Paul A Clemons, PhD Broad Institute of MIT and Harvard

Olivier Elemento, PhD Weill Cornell Medical College

Johannes M. Freudenberg, PhD GlaxoSmithKline

Jennifer Fuller GeneCentrix Inc

Rajarshi Guha, PhD Vertex Pharmaceuticals

Traver Hart, PhD, MD Anderson Cancer Center

Wengong Jin Massachusetts Institute of Technology

Michael Keiser, PhD University of California, San Francisco

Elizabeth McMillan, PhD Pfizer

Nicholas Tatonetti, PhD Columbia University

Bridget Wagner, PhD Broad Institute of MIT and Harvard

Anne Mai Wassermann, PhD Bayer

Explore the current state of computational methods used in phenotypic screening and novel in-silico approaches, and including discussions of deep learning, AI, functional genomics, chemical screening, systems biology, target deconvolution, biomarkers, and toxicity.

Date: Thursday-Friday, June 4-5, 2020

Time: June 4, 11 AM – 4:45 PM (ET),

- June 5, 11 AM 4:15 PM (ET) Place: Webinar
- Cost: ACS and Academy members save \$30 or more on this event. Please select the appropriate non-member Registration Category and use the Priority Code "ACS".

For more information and to register for the event, go to:

#### www.nyas.org/Phenotypic2020

To become a Member of the Academy, visit nyas.org/become-a-member/



The Indicator is usually posted to the web around the 20th of the previous month at www.TheIndicator.org

# LIACS 2020 SPRING SEMINAR PROGRAM

On the Thursday evening of February 6, 2020, the LIACS had the honor of having Dr. Qu Wang visit us and deliver the monthly LIACS seminar. Fifty-one LIACS members and affiliates enjoyed the enriching and enlightening evening as Dr. Wang shared many of the exciting findings of her research on Understanding Neuro-degeneration and Nanostructures using Synchrotron Views of Transition Elements done at Brookhaven National Lab. Dr. Wang was very engaging in her presentation as she answered questions from the participants about her research. Dr. Wang received a Ph.D. in Chemistry from the University of North Texas and is currently a faculty at Nassau Community College. She was also a research scientist at Brookhaven Lab and has published over seventy papers.

Our special thanks also go to the Queensborough Community College (QCC) Chemistry Department and the following Student Clubs for supporting the Seminar Program and for providing refreshments: STEM Academy, Chemistry Club, QCC Affiliates of the ACS, STEM Research Alliance, Student Health Club, Biology Club, STEM Research Club, and Environmental Sustainability Club. Several attendees went out to a Maria's restaurant and presented her with a Nobel Prize replication gold coin award plaque for the many years of hospitable service they provided to the LIACS chapter. The Nobel Prize replication gold coin was designed and printed by Dr. James Garofalo of the U.S. Merchant Marine Academy in Kings Point, NY.





The LIACS Spring Seminar featuring (above) Dr. Qi Wang, presenting and shown (below) with LIACS Chair John Sleckman.

> (Photos courtesy of Paul Sideris)

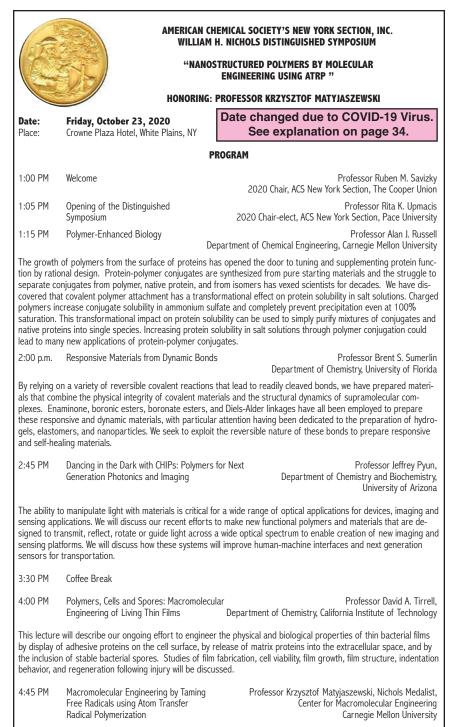
# WESTCHESTER CHEMICAL SOCIETY

On February 12, 2020 Dr. Weiqiang Chen, Ph.D. spoke on "Microengineered Biomaterials and Biosystems for Cancer and Immunoengineering." Dr. Chen is an Assistant Professor in the Departments of Biomedical, Mechanical and Aerospace Engineering at New York University, New York, NY. He received his B.S. in Physics from Nanjing University in 2005 and M.S. degrees from Shanghai Jiao Tong University in 2008 and Purdue University in 2009, both in Electrical Engineering. He earned his Ph.D. degree in Mechanical Engineering from the University of Michigan in 2014. He is the recipient of the Biomedical Engineering Society Young Innovator Award of Cellular and Molecular Bioengineering (2019), the Chroma Young Investigator Award in Biomedical Engineering (2019), the Lab on a Chip Emerging Investigator Award (2018), the National Institute of Biomedical Imaging and Bioengineering Trailblazer Award (2018), the NYU Whitehead Fellowship in Biomedical and Biological Sciences (2017), the Goddard Junior Faculty Award (2017), the American Heart Association Scientist Development Award (2016), the Baxter Young Investigator Award (2013). Dr. Chen's research interests focus on Lab-on-a-Chip, biomaterials, analytical chemistry, cell mechanobiology, stem cell biology, caner biology, and immune engineering

His talk dealt with the use of lab-on-a-chip systems. These take advantage of state-of-theart micro/nanotechnologies, and use functional biomaterials and integrated analytical systems. They allow us to address important problems in fundamental biology as well as clinical applications in cancer diagnosis, treatment, and even personalized medicine. As examples, he discussed microfluidic lab-on-a-chip systems for capture and analysis of immune cells as well as rare circulating tumor cells for cancer diagnosis. He illustrated this with his microfluidicsbased organotypic leukemia and glioblastoma brain tumor models to screen new cancer immunotherapies by reconstituting key cellular and immune interactions from in vivo microenvironments. Specifically, he showed cellular bone marrow and brain environments on a chip, including videos of CAR-T Cells attacking and destroying leukemia cells. CAR-T Cells are immune system T cells conjugated with Chimeric Antigen Receptors (i.e., receptors for antigens found on the surface of cancer cells). These allow the T cell to specifically attach to and destroy the corresponding cancer cell. There was discussion and questions both during and after the talk. Several members of the WCS board of directors (Dr. Peter Corfield, Dr. Paul Dillon, Mr. Jason Poland and Ms. Kay Whiten) attended Dr. Chen's talk, which was held at the Westchester Community College in Valhalla, NY. The photo below is of Dr. Chen and the WCS board members who attended the talk.



Kay Whien, Peter Corfield, Jason Poland, Weiqiang Chen and Paul Dillon.



#### THE INDICATOR-MAY 2020

Macromolecular Engineering (ME) is a process comprising rational design of (co)polymers with specific architecture and functionality, followed by precise and efficient polymer synthesis and processing in order to prepare advanced materials with target properties. We employed radical polymerization for ME due to its tolerance to many functionalities although radicals are difficult to be controlled, since they have very short life times (<1 s) and are involved in side reactions. Taming free radicals was accomplished via dynamic equilibria between minute amounts of radicals and large pool of dormant species using copper-based ATRP (atom transfer radical polymerization) catalytic systems. By applying new initiating/catalytic systems, Cu level in ATRP was reduced to a few ppm and ME provided polymers with precisely controlled molecular weights, low dispersities, designed shape, composition and functionality as well as block, graft, star, hyperbranched, gradient and periodic copolymers, molecular brushes and organic-inorganic hybrid materials and bioconjugates. These polymers can be used as components of various advanced materials such as health and beauty products, biomedical and electronic materials, coatings, surfactants, lubricants, additives, sealants as well as nanostructured multifunctional hybrid materials for application related to environment, energy and catalysis.

#### MEDAL AWARD BANQUET

5:45 PM Social Hour

6:45 PM Medal Award Dinner

Presiding:

ACS Greetings:

Introductory Address:

Presentation of the Medal: Acceptance Address: Dr. Ruben M. Savizky 2020 Chair, ACS New York Section, The Cooper Union

Dr. Katherine L. Lee District 1 Director, American Chemical Society

> Dr. David A. Tirrell California Institute of Technology

> > Dr. Ruben M. Savizky

Dr. Krzysztof Matyjaszewski Nichols Medalist

#### For More Information: Please visit the New York Section website at www.NewYorkACS.org

Online registration using PAYPAL for payment is available at www.newyorkacs.org/meetings/Nichols/2020Nichols.php

Or use the Tear Off reservation form at this line		BANQUET RESERVATIONS DEADLINE – OCTOBER 5, 2020						
MAIL RESERVATIONS TO: More Information:		ACS, New York Section Office Attn: Bernadette Taylor						
		1313 3rd Ave., #2 South						
https://www.NewYorkACS.org		Spring Lake, NJ 07762						
Phone: 732-770-7324		,						
E-mail: btaylor@NewYorkA	CS.org							
• -			Number	Total				
Symposium only:	\$70 (\$50 for ACS M	embers)		\$				
Student, unemployed	\$30			\$				
50 year ACS member	\$0			\$ \$				
Banquet only:	\$150 (\$130 for ACS			\$				
Symposium & Banquet:	\$170 (\$140 for ACS	6 Members)		\$				
Table of 8 or more for symposium/banquet	\$150 per person (n	on-ACS Members)		\$				
Reserve our table in the name of				*				
Enclosed is my check, payable to	ACS, NEW YORK SEC	TION, Inc. in the an	nount of	\$				
If reservations are for more than one person, please attach a list of the guests' names, and dinner selections where needed.								
DINNER CHOICES: Ch	icken Pri	ime Rib	Salmon					
Tickets will be mailed to the	e person designated b	oelow						
NAME		PHONE						
ADDRESS		E-MAJL						
CITY, STATE, ZIP								

# THANKS TO MARM2020 EXHIBITORS

Dear MARM 2020 Exhibitors:

It is with deep regret that we inform you the Executive Committee of the 48th Middle Atlantic Regional Meeting (MARM 2020) has reached a decision of terminating its June conference, planned to be held on June 12, 2020, at the Graduate Center of City University of New York. The decision has been made in the interest of the health and safety of all MARM 2020 participants including its presenters, exhibitors, and attendees.

At the present time, the refunds of our MARM 2020 Exhibitors are being processed.

Although MARM 2020 is canceled, your organization's logos, as MARM 2020 Exhibitors, will remain on the conference website at https://www.marm2020.org, and along with your Program information, will be published in the Indicator, the New York and New Jersey American Chemical Society (ACS) Newsletter at https://theindicator.org/index.html.

Once again, we would like to express our greatest gratitude to your organizations for your past and continued support of ACS MARM conferences, especially through the exhibition. We wish you, your family members and colleagues a safe and healthy status during this difficult time.

We look forward to future opportunities to work with you, your colleagues, and your organizations.

Sincerely, Ping Furlan Yosra Badiei MARM 2020 Exhibition ACS New York Section

# MARM 2020 Exhibitors

#### Commercial Exhibitors (Booths Sold Out)

Society of Cosmetic Chemists Chem 101 Advion TA Instruments Dotmatics Heidolph North America Vernier Nanalysis Shimadzu STREM

### Academic Exhibitors (Booths Sold Out) UPenn

University of Delaware CUNY Graduate Center St. John's University Columbia University SUNY Stony Brook University CUNY York College



# MARM2020 EXPO

Sponsored by the New York Local Section of the American Chemical Soc The Graduate Center of the City University of New York | June 12, 2020 - CANCELLED Advion's nearly three-decade dedicated to serving scientists yields customer-focused life science solutions. Our deep scientific, engineering, and customer workflow knowledge spawns an Advion unrivaled solutions portfolio. We work directly with, train, and passionately advocate for our customers to ensure their success. Dedicated to Science - Dedicated to You. Visit advion.com. Chem101's active learning platform enables instructors to engage their students in the classroom with interactive problems, assign homework, and provide on-the-go practice activities. The platform's intuitive technology allows instructors to go beyond generic questions with chemistry-Chem specific answer modules that make learning and teaching fun, effective, and exciting. Our Scientist to Engineer (S2E) Program is an intensive, accelerated program designed especially for new M.S. students without a B.S. in Chemical Engineering. This program covers the essentials of the entire undergraduate curriculum, followed by a standard M.S. program. Typically, this can cheme.columbia.edu/masterscience-program-0 all be accomplished in three semesters. Dotmatics delivers a platform to capture, register, share, query, visualize and analyse information generated in modern, collaborative scientific industries. Dotmatics scientific informatics include dotmatics database management for chemistry, formulations, polymers and process data, ELN, chemical and polymer registration, high-throughput data management, reporting, visualization with enterprise solutions which are flexible, scalable and configurable. www.dotmatics.com Heidolph North America's focus is providing unparalleled sales and support or premium lab heidolph equipment. Heidolph specializes in rotary evaporators, overhead stirrers and magnetic stirring Heidolphna.com hotplates. Nanalysis develops and manufactures affordable, accessible, and automatable NMR spectrometers. Our spectrometers are aimed at expanding the use of multinuclear NMR analysis spectroscopy into qualitative and quantitative chemical applications where NMR has not historically been used. In 2019, Nanalysis introduced the 100 MHz product, the highest field nanalysis.com available for benchtop NMR spectrometers. TA Instruments provides innovative material characterization instruments that are widely used TA for research, analysis, and quality control in the evaluation of physical properties. We are the world's leading supplier of thermal analysis, rheology, and micro-calorimetry instruments. instruments.con The University of Delaware is situated less than an hour from Philadelphia, PA, and is within easy NIVERSITYO driving distance of New York City and Washington, D.C. Our graduate program in Chemistry ELAWARE and Biochemistry combines a rich historic legacy with a strong commitment to education and innovation. Students at UD benefit from a highly supportive and collaborative environment that artment of supports a wide array of cutting-edge Core Facilities, and dynamic initiatives focused on driving histry & Biochemistry advancements across all areas of chemistry, biochemistry and related fields. Chem.udel.edu The University of Pennsylvania's Master of Chemical Sciences prepares you for diverse career and academic possibilities in the chemistry fields. We feature PhD-level courses, individualized & Penn advising, six chemistry concentrations, and Ivy League facilities and resources. Complete your www.sas.upenn.edu/lps/gradua research with local and national industry partners or at Penn's stellar facilities. Our mission: To advance cosmetic science The Society strives to increase and disseminate scientific information through meetings and COSMETIC publications. By promoting research in cosmetic science and industry, and by setting high ethical, professional and education standards, we improve the qualifications and caliber of cosmetic sciences. St. John's University welcomes students to learn more about how to apply for our Masters in 60 Science (M.S.) program in chemistry and discuss how our program can help the student meet their ST. JOHN'S career goals. UNIVERSITY www.stjohns.edu/academics/progr ams/chemistry-master-science Stony Brook Chemistry has a long history of conducting research and teaching at the interface of chemistry with fields such as biology, medicine, and materials science. This tradition was Stony Brook established by Nobel Laureate Paul Lauterbur, who made his pioneering discoveries in Magnetic University Resonance Imaging at Stony Brook. As part of our diverse community, you will benefit from the ttps://www.stonybrook.edu/chem wide range of opportunities found at a large research university while enjoying the personalized Istry/ attention and sense of community that exists within our Department. For 39 years, Vernier Software & Technology has been the leader in scientific data-collection Vernier technology. Education worldwide use Vernier Sensors, instrumentation, including a benchtop gas chromatograph and spectrophotometers, software, and experiments to teach and engage students www.vernier.com in chemistry investigation.

# CANDIDATES FOR THE NEW YORK SECTION 2020 ELECTIONS

At the January 2020 Section-wide Conference, the Nominating Committee presented the candidates for office for the 2020 elections. The biographies of the candidates will be posted on the New York Section website at https://www.newyorkacs.org/2020\_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 email 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 chair2020@newyorkacs.org or njesper1@optonline.net or jespersn@stjohns.edu. Also, if you have opted-out of SurveyMonkey in the past, please opt-in by April 15, 2020 for the election. Members requesting paper ballots will receive them **by May 1, 2020**. 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) Kathleen Kristian (Iona College) Mary Virginia Orna (College of New Rochelle)

Secretary for 2021 and 2022 (Vote for 1) Daniel Amarante (Stony Brook University)

**Director-at-Large for 2021** (Vote for 3) Maria Contel (Brooklyn College and The Graduate Center, CUNY)

Ronald D'Amelia (Retired) Aaron Moment (Columbia University)

Yolanda Small (York College and The Graduate Center, CUNY) Paris Svoronos (Queensborough

Community College)

Councilor for 2021-2023 (Vote for 3) Donald Clarke (Fordham University) Barbara Hillery (SUNY Old Westbury) Hiroko Karan (CUNY - Medgar Evers College)

Patricia Redden (Saint Peter's University) Frank Romano (Agilent Technologies) Daniel Silverio (Adelphi University)

#### Alternate Councilor for 2021-2022 (Vote for 2)

Elmer-Rico Mojica (Pace University) Eric Chang (Pace University)



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# ACS NEW YORK SECTION'S ELECTION BIOGRAPHIES

Offices of Chair-elect, Secretary, Directors at Large, Councilors and Alternate Councilor

#### CANDIDATES FOR CHAIR-ELECT FOR 2021 (1 YEAR TERM OF OFFICE) VOTE FOR ONE



#### DR. KATHLEEN E. KRISTIAN: New York Chapter

EDUCATION: PhD in Chemistry, Columbia University; Postdoctoral Research Associate, Ames Laboratory/Iowa State University

PRESENT POSITION: Associate Professor and Chair, Chemistry and Biochemistry Department, Iona College

ACS NEW YORK SECTION ACTIVITIES: Co-Chair, Inorganic and Organometallic Topical Group, 2012-present; Board Member, 2012-present; Session Organizer/Presider, MARM 2016

**NATIONAL ACS ACTIVITIES:** Member since 2004; Reviewer, ACS Student Affiliates Chapter Reports, 2012-2017; Reviewer and contributor to ACS journals; Participant, ACS research symposia

#### STATEMENT

It is an honor to be nominated to serve as the Chair Elect of the New York ACS Local Section. I would gladly work to share the value and joy of chemistry with our members and the public, by facilitating the exceptional programming, events, and educational activities of the NY Local Section.

My first encounter with the Section was as a graduate student in the early 2000s, when my advisor and the group attended the annual Inorganic and Organometallic Topical Group seminar and poster session event. Our memorable experiences at these events, where we shared current results, networked with other Section members, and learned from a speaker from outside of the section, led me and Dr. Camara to revive the Inorganic and Organometallic Topical in 2012. I am extremely proud of the impact that the annual Frontiers of Inorganic and Organometallic Lecture Symposium and ION (Inorganic, Organometallic, Nano) Poster Session have had on the local community within our subfield of chemistry. Each fall we bring together students, post-doctoral scientists, faculty, and industrial chemists to share the impressive science that they are undertaking in the NY area and to welcome a prominent chemist as our keynote lecturer. I hope that these events have had as much of an impact on students and postdoctoral scientists within the Section as the events that we attended as graduate students have had on us.

As a Co-Chair of a Topical Group, I have firsthand experience with the enormous effort and devotion that the Topical Group leadership puts forward on behalf of NY Local Section members. I would continue the robust support for Topical Groups that has enabled the many diverse programs that connect Section members to each other and to their areas of interest. Likewise, to advance the strategic thrusts of the Section, the annual events that reach students, professionals, and the general public must be supported and promoted. The URS, Nichols Symposium, William H. Nichols Fellowship Program, Chemists Celebrate Earth Day events, National Chemistry Week events, Chemagination, Project Seed, Westchester Subsection Science Café, and numerous events organized by the Chemical Marketing and Economics group are where we meet each other, continue our professional training and education, inspire new generations of chemists, and share our love of the chemical sciences with the public.

Our strategic plan is well-served overall by the existing activities and offerings within the Section, but we can continue to work together to increase participation in Section-wide events and to recruit new active members. One channel to reach new participants in the NY Section is through the ACS Student Affiliates chapters at the many colleges and universities in the region. I would work to boost student participation in Topical Group events and other technical programs, and to support these chapters' efforts to participate in Local and National ACS activities. I would also continue the current efforts within the Section to provide opportunities for collaboration and increased interaction among Subsections and groups. I am confident that working together with the Board of Directors, Topical Group and Subsection leaders, past chairs, current members, and students, we can advance the chemical sciences by continuing the impressive activities of the NY ACS Local Section.

(continued on page 26)

# ACS NEW YORK SECTION'S ELECTION BIOGRAPHIES

(continued from page 25)



DR. MARY VIRGINIA ORNA: Westchester Subsection

EDUCATION: Chestnut Hill College, B.S., 1955; Fordham University, M.S., 1958, Ph.D., 1962; Catholic University of America, M.A., 1967.

Honors: ACS Silicon Valley Local Section Radding Award, 2019; ACS Award for Volunteer Service, 2009; Henry Hill Award, Division of Professional Relations, ACS, 2008; John A. Timm Award, New England Association of Chemistry Teachers, 2007; Distinguished Scientist Award, Westchester Chemical Society, New York Section, ACS, 2004; George C. Pimentel, Award in Chemical Education, ACS, 1999; Visiting Scientist Award, Western Connecticut Section, ACS, 1996; Norris Award, Northeastern Section, ACS 1996; Fulbright Senior Scholar for Israel, 1994; Merck Innovation Award, 1989; CASE New York State Professor of the Year Award, 1989; CASE National Gold Medalist, 1989; CMA Catalyst Award, 1984.

**POSITIONS:** College of New Rochelle 1966 to date, New Rochelle, New York, Professor Emerita; President, ChemSource, Inc.; Chemical Heritage Foundation,

Director of Educational Services and Editor, Chemical Heritage Maga**2996**-00; The Hebrew University, Visiting Professor, 1994-95; Shenkar College of Textile Technology, Visiting Professor, 1994-95; The Weizmann Institute of Science, Visiting Lecturer, 1994-95.

ACS NEW YORK SECTION ACTIVITIES: Education Committee, 1989-91; Westchester Chemical Society Board, 2015-present: IYPT2019 Giant Periodic Table Contributor: IYPT2019 Science Café Co-Organizer.

NATIONAL ACS ACTIVITIES: Council Policy Committee, 2008-13; Committee on Committees, 2002-07; Committee on Nominations and Elections, 1996-01, Vice-Chair, 2000; Committee on Divisional Activities, 1993-95; 2017present; Society Committee on Education, Committee Associate, 1994-96; Committee on Meetings and Expositions, Committee Associate, 1992; Journal of Chemical Educations Coordinator, 2002-07; ad hoc Committee on National Historic Chemical Landmarks, 2000-02.

Service in ACS Offices: Member ACS since 1967. Division of History of ChGautaction,:1991-present; Chair, 1998, 1983-84; Chair-Elect, 1997, 1982-83; Treasurer, 1889-90; Awards Committee Chair, 1989; Program Committee Chair, 1984-88. Philadelphia SectDirector, 1999-01. Division of Chemical Educatation1998, Chair-Elect, 1997; Treasurer, 1985-86; Nominations Committee Chair, 1981-83; Examinations Institute, Board of Trustees, 1983-02.

**Member:** Chemistry Teachers' Club of New York; New England Association of Chemistry Teachers; Institute for Conservation of Historic and Artistic Works; History of Science Society. ACS Division@hemical Education; Chemical Information and History of Chemistry.

Related Activities: Committee on Meetings and Expositions, Program Coordination Conference Advisor, 1989-98; Journal of Chemical Educated tee Editor, 1980-90; Program Chair of the 14th Biennial Conference on Chemical Education, August 1996; National Institute of Environmental Health Sciences, Visiting IPA Research Scientist, 1987-88; National Institutes of Health, Extramural Associate, 1984; New York University National Science Foundation Fellow, 1978; University of California, Los Angeles, Visiting Professor, 1977; Principal Investigator of ChemSource: A Support Strategy for Pre-aster Vinceervice Chemistry Teamtdemumerous other grants; ACS Tour Speaker; organizer of numerous symposia for ACS meetings and Blennial Conferences of the Division of Chem Educationauthor of seven books, editor of thirteen volumes including four ACS volumes, over 80 papers; book chapters and encyclopedia articles.

STATEMENT: I am honored to be nominated for the office of Chair-Elect of the ACS New York Local Section. It is my firm belief and constant experience that Local Sections are the life blood of the American Chemical Society. Local Section officers and volunteers are unsung heroes and heroines who, as enthusiastic volunteers, work tirelessly to reach out to the many communities that intersect with the chemical community - during vacations, weekends, evenings, and everywhere in between. The devoted, selfless, diligent contributions of Local Section members have enabled ACS to become the world's largest scientific professional organization. Local Sections address the "green edge of innovative thought" that, through new models and structures, eventually drives our educational systems and the economy.

All ACS activities share the ultimate goal of promoting chemistry as a fundamental driver that improves the quality of everyone's life - worldwide. The New York Local Section does this through its many committees and topical groups that intersect with its six subsections to afford a multifaceted forum for intellectual exchange. Of the seven strategic thrusts spelled out on our website (<u>https://newyorkacs.org/about.php</u>). I would like to focus on enhancing the interdisciplinary boundaries of chemistry, improving scientific literacy, and fostering inclusiveness, without neglecting the other thrusts, of course. The Section's record of service to the larger chemical community and national ACS has been so outstanding as to be recognized year after year at the Chemluminary Awards as one of the greatest large sections with a large and enthusiastic cadre of volunteers. As ACS New York Local Section Chair, I will regularly seek your recommendations and work with you to develop activities and strategies to support and assist our members. I will confer and work with you to improve and strengthen communications, increase resources, seek out innovative ideas, sponsor programs, and promote effective policies to enable us as a Local Section to continue to grow and flourish. I am determined to serve as a responsive, hardworking, committed ACS Local Section Chair. I know how important it is for a smoothly functioning organization to network in an inclusive environment where all members feel included and listened to. The well-being of our members and the progress of our projects is our shared responsibility. Since ACS is a membership organization, our guiding principle, in whatever we do, should be to keep ACS members' best interests always in mind – weighing how each decision will affect individual ACS members. This is certainly a principle that I espouse and will promote if elected.

When I served on the ACS Local Sections Committee, I had the opportunity to observe, visit and evaluate a large number of local sections, literally from Maine to Honolulu. This experience made me ever prouder to be a member of the New York Local Section – always the place I could come back home to, a Section with a glorious history that has admirably met the challenges of change and growth over the past 126 years. I will be honored and excited to receive your trust to promote your professional excellence, the entire chemical enterprise, and the ongoing benefits it generates for everyone.

### CANDIDATE FOR SECRETARY 2021 and 2022 (2 YEAR TERM OF OFFICE) VOTE FOR ONE



DANIEL AMARANTE: Westchester Subsection.

EDUCATION: Ph.D., Stony Brook University, Chemistry; B.S., St. John's University. PRESENT POSITION: Stony Brook University, Lecturer and Director of Introductory Courses

NEW YORK SECTION ACS ACTIVITIES: Secretary 2017 – present; Chair-Elect for Long Island Subsection (2020); Director-at-Large 2014-2016; NYACS Board of Directors 2014 to present; Co-advisor, College of Mount Saint Vincent ACS Chapter 2011-2019; Judge, Chemagination 2012 – 2015. MARM: Co-General Chair for MARM 2016.

NATIONAL ACS ACTIVITIES: Member, Inorganic Division.

### CANDIDATES FOR DIRECTOR-AT-LARGE FOR 2021 (1 YEAR TERM OF OFFICE) VOTE FOR THREE



#### DR. MARIA CONTEL: Brooklyn Subsection

EDUCATION: HERS Leadership Institute For Women in Higher Education (US), Leadership Certificate 2018; Public University of Navarra, Spain, Ph.D. 1996, University of Zaragoza, Spain, MS/BS, 1993.

**PRESENT POSITION:** Professor and Chairperson, Chemistry Department, Brooklyn College and The Graduate Center, City University of New York (CUNY)

ACS NEW YORK SECTION ACTIVITIES: Member since 2006

NATIONAL ACS ACTIVITIES: Member since 2006. Presenter (talks) in symposium at different National (Spring 2013, Spring 2019, Fall 2019, and Spring 2020) and regional (NERM 2019) ACS Meetings. Presiding one session in ACS National Spring Meeting 2020. Co-organizer of a Symposium at Pacifichem 2020. ACS Division: Inorganic Chemistry.

(continued on page 28)

# ACS NEW YORK SECTION'S ELECTION BIOGRAPHIES

(continued from page 27)



#### DR. RONALD P. D'AMELIA: Long Island Subsection

EDUCATION: Ph.D. Adelphi University, M.S. Adelphi University, B.S. City College of New York, CUNY.

**PRESENT POSITION:** Retired in July 2003 as a Sr. Principal Scientist, Polymer Research, Corporate Technology, R&D, Nabisco Foods Group; Currently Adjunct Professor, Hofstra University, Department of Chemistry; also emeritus faculty Advisor for the ACS Student Members chapter of Hofstra University; and Adjunct Assistant Professor, Nassau Community College.

ACS ACTIVITIES: NEW YORK SECTION: Recipient of the E. Emmet Reid award in Chemistry & Teaching at small colleges for MARM 2016. Organizer, Presider, & Presenter for the 44<sup>th</sup> MARM symposium on Polymer Chemistry – Undergraduate Research &

for the 44<sup>th</sup> MARM symposium on Polymer Chemistry – Undergraduate Research & Teaching. 44<sup>th</sup> MARM Planning Committee Consultant 2014-16. Member of the 2/4year Outstanding Award Committee 2019-2022. Member Student Activities - URS committee 2012-19; Member of the Chemistry Olympiad committee 2010-19; National Chemistry Week (NCW) and Chemist Celebrate Earth Day (CCED) Coordinator to the National ACS Committee of Community Activities (CCA) 2009 -2019, Chairperson of the MARM 2008 Career Services Committee, Organizer of MARM 08 Leadership Development Workshop and the Career & Resume Review Workshop, Member of the MARM 2008 Executive Committee; Outstanding Service Award for 1998; Councilor, 2009-2017, 2002-2007, 1993-1998, and 1989-1991; Alternate Councilor 2018-22, 2008, 1999-2002, 1991-1993 and 1985-1988; Chairperson of Councilor Coordinating Committee 1998-2019; Chairperson of the Outstanding Service Award Committee 2002; Member of the Outstanding Service Award Committee 1999-2002; Finance Chairperson for MARM 1997- Organizing Committee 1996-1998; Chairperson, Congressional Science Councilors Committee, 1992-1996; NY State and Local Government Program Coordinator 1994; Member, Audit Committee 1994-2017; Bylaws Committee 1997-2000; Industrial Relations Committee 1996-1999; Finance Chairperson for MARM 1993 Organizing Committee; Long Range Planning Committee 1991-2016; EAS Delegate 1989-1999; Publication Chair, 202nd National ACS Steering Committee 1990-1991; General Interest Committee, National NYC-ACS Meeting, 1986; NYS Fund Raising Committee, 1986; "NYS-CHEM" 1984 Committee; Membership Committee 1980-1981; Co-author of N.Y. Section Pamphlet on "Reasons for Being an ACS Member". LONG ISLAND SUBSECTION: Board of Directors, 1985-1992; Chairperson, 1984; Chair-Elect, 1983; Chair, Program Committee, 1983; Chair, Membership Committee, 1980-1981.

NATIONAL ACS ACTIVITIES: Member Committee on Ethics from 2017 to present. Team Leader/editor for NCW 2014 Celebrating Chemistry – "The Sweet Side of Chemistry – Candy" 2012-14. Member of the National ACS Fellows Selection Committee 2012-14. Received the ACS Fellows Award 2011; Member of the IYC 3<sup>rd</sup> quarter Team on Materials wrote article on Plastics, Bio-plastics and Recycling for the Web edition of Celebrating Chemistry, Member of the Community Activities (CCA) and its subcommittee on Program Development & Promotion (PDP) 2009-2016; Task Force Leader for CEPA Operations and Functions Manual 2007-08; Member ACS Council Standing Committee on Economic and Professional Affairs (CEPA) 2003-08; Chair of the CEPA Standard Operational Task Force; Member CEPA subcommittee on Employment Services 2007; Member CEPA subcommittee on Professional Programs 2003-06. Member, ACS Council Standing Committee on Meetings and Exposition, 1993-1998 and 1990-1991; Chair of M&E Subcommittee on Exposition Subcommittees of M&E, 1994-1995 and 1990-1991; NY Section Representative on State and Local Government (SLGA) Affairs Program Committee, 1994; Member, ACS Division of Polymer Chemistry; Co-chairman of "Food Polymer" Symposium at the 27th MARM and 18th NERM; Member, ACS Division AC Chemical Education; Affiliate Member, International Union of Pure and Applied Chemistry. Attended every National ACS Meeting since 1993.

#### DR. AARON MOMENT: New York Chapter

**EDUCATION:** Aaron earned his B.S. in Chemical Engineering from Rensselaer Polytechnic Institute in 1994, and an M.S. and Ph.D. from Massachusetts Institute of Technology in 1996 and 2000, with a thesis in block polymer synthesis and characterization.

PRESENT POSITION: Aaron recently joined Columbia University as a Professor of Practice in Chemical Engineering; Merck & Co., Inc., Rahway, NJ,

ACS NEW YORK SECTION ACTIVITIES: Member since 2018; attends local ACS events and symposia and continues outreach to industry and other local universities. NATIONAL ACS ACTIVITIES: Member since 1997. Attendance at national ACS events.



#### DR. YOLANDA SMALL: New York Chapter

EDUCATION: Ph.D. in Chemistry, Penn State University; BS in Applied Math & Chemistry, University of Houston

PRESENT POSITION: Associate Professor, York College and the Graduate Center, City University of New York

ACS NEW YORK SECTION ACTIVITIES: 2011-2015 Co-chair, Undergraduate Research Symposium, 2015-2018 Committee member, Undergraduate Research Symposium; June 2016 Computational/Physical Chemistry Symposium - Chair of three sessions - Mid-Atlantic Regional Meeting (MARM); 2019-2020 Co-chair of Computers in Chemistry Topical Group

NATIONAL ACS ACTIVITIES: Member since 1997

#### DR. PARIS SVORONOS: Long Island Subsection EDUCATION: Ph.D. Georgetown University

PRESENT POSITION: Professor - Queensborough Community College

ACS NEW YORK SECTION ACTIVITIES: NY Section chair (2015); Director at large (2013); Long Island subsection chair (2002); Director at large (2003-2010); History of Chemistry (2019-present); Microwave chemistry (2016-present); MARM 2008 (General- co-chair); MARM 2016 (Program co-chair); MARM 2020 (Abstract submissionco-chair); URS Hosting co-chair 2004, 2008, 2015

NATIONAL ACS ACTIVITIES: American Chemical Society Fellow (2018); Stanley C. Israel Regional Award for Advancing; Diversity in the Chemical Sciences (2018); American Chemical Society-NY section, Volunteer; Award recipient (2017); Ann Nalley Regional Award for Volunteer Service to the American Chemical Society (2016)

### CANDIDATES FOR NEW YORK SECTION COUNCILOR (3 YEAR TERM OF OFFICE 2021-2023) VOTE FOR THREE



DR. DONALD D. CLARKE: Organic Chemistry Topical Group.

EDUCATION: Visiting Professor Mt. Sinai School of Medicine of CUNY 1993-94; Research Associate, Columbia University 1957-61; Biochemistry Post Doctoral, University of Toronto, Banting Institute 1955-57; Ph.D. Fordham University 1956; M.S. Fordham University 1951; B.S. Fordham University 1950.

PRESENT POSITION: Professor of Chemistry, Fordham University.

ACS NEW YORK SECTION ACTIVITIES: Chair 1977-78; Chair-elect and Program Chair 1976-77; Nichols Medal Jury 1978-83; Nichols Medal Chair 1983; Outstanding Service Award 1982; Outstanding Service Award Committee 1982-85, Chair 1985; Long Range Planning Committee 1979-date; Councilor 2010-12, 1990-2008, 1987-89, 1979-85, 1975-77; Alternate Councilor 2013-18, 2009-10, 1993-95, 1986-87, 1977-79, 1974-

75; Constitution and Bylaws Committee, Past Chair; General Chair, MetroChem '78; Program Chair, MetroChem '80 and MetroChem '82; Member Organizing Committee, MetroChem '85; MARM Steering Committee 1987-date, Chair 1999-2000; MARM service award from NY Section 2004; Continuing Education Committee, Chair, Site Selection Committee; Project SEED.

NATIONAL ACS ACTIVITIES: Senior Chemists Task Force 2009-12; Senior Chemists Committee 2013-date; Joint Board Council Committee on Chemical Abstracts Services 2009-11; Divisional Activities Committee 2005-08; Committee on Nominations and Elections 1993-95, 1997-2004; Women Chemists Committee 1996; Committee on Committees 1991-93; Member Affairs Committee 1989-90; Liaison to Chemical Health and Safety, International Affairs and Economic Status Committees; Member of Chemical Education, Biochemistry, Analytical, Professional Relations and Computers in Chemistry Divisions.

(continued on page 30)

# ACS NEW YORK SECTION'S ELECTION BIOGRAPHIES

(continued from page 29)

#### DR. BARBARA HILLERY: Long Island Subsection

EDUCATION: University of Virginia, B.A.; American University, Ph.D.

PRESENT POSITION: SUNY Old Westbury Acting Associate Provost; Professor of Chemistry.

ACS NEW YORK SECTION ACTIVITIES: Councilor, 2012-20; Alternate Councilor, 2006-08; Chair, 2009, Chair-Elect, 2008; Director-at-Large 2007-09; Executive Board 2007-2010, 2012-present; CCED Coordinator 2011; Cochair Student Activities Committee 2011-2012; Chemagination Committee 2011, 2014; Finance Committee 2007-2010; Environmental Committee Chair 2003-09; MARM organizing Committee 2007-2008; Nichols Award Jury 2009-12; Outstanding Service Award Committee 2012-16. Delegate to EAS 2003-2004. Long Island SubsectCitatir 2000; Chair-Elect 1999; Executive Board 1999-2009; Environmental Committee 1998-2009; Analytical Committee 1998-2010; Organizing Committee, Annual Francis Sterrett Environmental Symposium 1999-2009;

NATIONAL ACS ACTIVITIES: Committee on Local Section Activities, 2014-19, Committee Associate, 2013; Committee on Constitution and ByLaws Associate 2020; CPC Working Group on Future Council Representation 2018-2020; Presenter, ACS Leadership Institute Local Sections Workshop, 2016-2019.



#### DR. HIROKO I. KARAN: Brooklyn Subsection.

**EDUCATION:** Postdoctoral, New York University, Biophysics; Temple University Medical School, Biochemistry; Ph.D. Brown University, Organic Photochemistry; M.S. Wilkes University, Organic Chemistry; B.S. Pharmacy, Hoshi University, valedictorian.

PRESENT POSITION: Professor Emerita of Chemistry, Medgar Evers College, the City University of New York.

ACS NEW YORK SECTION ACTIVITIES: ACS Fellow 2014; ACS NY Section Chair; 2011, Chair-elect 2010; Councilor 2010-17, 2004-09, 2001-02; Alternate Councilor 1991-96, 2018-date; Long Range Planning Committee (LRPC) Chair 2006-10, LRPC

Member 1986–2012; Board Member 1985, 1987-90, 1994, 2001-02, 2004-date; Minority Affairs Committee 2003date; Academe-Industry Committee 1991-2000; Director-at-Large 1994; New York Section Secretary 1989-90; Outstanding Service Award 1992; Outstanding Service Award Committee member 1992-96, Chair 1996; Coordinator/Chair of National Chemistry Week 1991, Membership Committee Chair in NYC, Steering Committee 1991; Metrowomen Chemists Committee (MCC) 1987-date, MCC Coordinator 1989; Nichols Foundation High School Teacher Award Jury 1984-97, Chair 1987-88; Educational Activities Committee 1981-2009; Finance Committee 1983-date. NY BROKLYN SUBSECTION ACTIVITIES: Chair 1985; Treasurer 1982-83; Board of Directors 1982-88, 1998-2003, Member 1982-date.

NATIONAL ACS ACTIVITIES: Member, Committee on Public Relations and Communications 2019-20, Associate Member, Committee on Public Relations and Communications 2018; Member, Committee on Constitution and Bylaws (C & B) 2016-17, Associate Member of C & B 2015; Member of Sub-committee of C & B 2015-17; Senior Consultant of CMA 2014; Member of Committee on Minority Affairs (CMA) 2004-13, Committee Associate 2002-03; Chair of CMA Membership Subcommittee 2013; Member of CMA Communication subcommittee 2006-12; Member of CMA Awards subcommittee 2003-06; IUPAC Associate Member.



#### DR. PATRICIA REDDEN: Hudson-Bergen Subsection

EDUCATION: Ph.D., Physical Chemistry, Fordham University, B.S., Chemistry, Cabrini College

PRESENT POSITION: Professor of Chemistry, Saint Peter's University

ACS NEW YORK SECTION ACTIVITIES: Councilor, 1983-1991, 1993-2004; 2006-2008, 2011-2016, 2018-2020; Alternate Councilor, 1992, 2017; Past Chair, 1994; Chair, 1993; Chair-Elect and Program Chair, 1992; Board of Directors, 1983-present; Chair, Public Outreach Committee, 1998 – 2003; Outstanding Service Award Jury, 1994-1997; chair 1997; Kichols Medal Jury, 1992-1997; chair 1997; Educational Activities Coordinating Committee, chair 1987-1992; Nominating Committee, 1991-1993; chair 1991; Long Range

Planning Committee, 1992-1995; Chemistry for Kids Coordinator and Presenter, 1986-1997; General Interest Program Committee for ACS National Meeting, chair 1990-1991; Task Force on Pre-College Science, chair 1990; Education Committee, 1984-2003; Nichols Symposium Site Selection Committee, 1990-1993; National Chemistry Week (Day) Steering Committee, 1987, 1989-1998; FundRaising Committee, chair 1986; Finance Committee 1986-1994, chair 1993; Exposition Committee, ACS National Meeting, 1985-1986; General Interest Program Committee, ACS National Meeting, 1985-1986; Safety Committee, 1979-1996; chair 1981-1984; Speakers' Bureau, 1979-2002; Membership Committee, 1977-1978

HUDSON-BERGEN SUBSECTION, NEW YORK SECTION: Board of Directors, 1977-1978, 1979-2010; Treasurer, 1986-1991 Chair, 1981; Chair-Elect, 1980; Secretary, 1977-1978 NATIONAL ACS ACTIVITIES: Division Of Chemical Health And Safety, Chair, 1989; Chair-elect, 1988; Program Committee, 1985-1988; Chair 1986-1988; Member-at-Large to Board of Directors, 1985-1990

NATIONAL COMMITTEE MEMBERSHIPS: Committee on Chemists with Disabilities, Associate 2015-16; Member 2017-present Committee on Chemical Safety, Associate 1984, 2003-2005; Member 1985-1993, 2006-2014; Iiaison from CWD, 2017-present; Subcommittee on Resources, 2003-2014; 2017-present; Task force on Guidelines for Chemical Laboratory Safety in Academic Institutions, 2016; Subcommittee on Revision of 7th Edition of Safety in Academic Institutions, 2016; Subcommittee on Revision of 7th Edition of Safety in Academic Institutions, 2016; Subcommittee on Revision of 7th Edition of Safety in Academic Chemistry Laboratories, 1993; Subcommittee on A Model Hygiene Plan, 1991-1994, Chair 1993; Subcommittee on Revision of 5th Edition of Safety in Academic Chemistry Laboratories, 1993; Subcommittee on Audiovisual Safety Materials, Chair 1986-1988; Additional committee activities; Review of 1st edition of Safety in Elementary Science Classes; Revision of 4th edition of Safety in Academic Chemistry Laboratories; Committee on Environmental Improvement, Associate 1997-1999; Member; 2000-2002; Subcommittee memberships: Pollution Prevention, Toxicology and Risk Assessment; Committee on Economic and Professional Affairs, Member 1995 - 1996; Committee on Chemistry and Public Affairs, Associate 1994; Division of Chemical Education, Project ChemLab, 2000 – 2015; Examinations Institute, Chemical Health and Safety Examination Committee, 1994-1997.



#### FRANK R. ROMANO: Long Island Subsection.

EDUCATION: St. John's University, M.S., 1983; Adelphi University, B.A., 1978. PRESENT POSITION (for past 10 years): Field System Engineer, Agilent Technologies, Inc.

ACS NEW YORK SECTION ACTIVITIES: Treasurer 2016-Date, 2000-06; Councilor 2005-19; Alternate Councilor 2000-01; Chair 2010; New York Section ACS Outstanding Service Award 2006; New York Section ACS Salute to Excellence Award, 2004 and 2011. MIDDLE ATLANTIC REGIONAL MEETING: Treasurer 2018; Secretary 2012-18. NY LONG ISLAND SUBSECTION ACTIVITIES: Chair of Subsection 1996; Chair, High School Awards 2009-date. Middle Atlantic Regional Meeting: Treasurer 2016, 2008.

EASTERN ANALYTICAL SYMPOSIUM: Delegate 2006-2011; Chair, Registration 2012; Chair, Housing 2013, Vice Chair 2013; Chair, Short Courses 2016, Vice Chair 2015; Chair, Awards 2018, Vice Chair 2017; Chair, Transportation 2019; Secretary 2020.

**NATIONAL ACS ACTIVITIES:** Member ACS since 1979. Member, Committee on Economic and Professional Affairs, 2014-19 (CEPA Chair 2019); Member, Committee on Meetings and Expositions 2008-13, Committee Associate 2006-07; ACS Division: Analytical Chemistry; ACS Fellow 2019.



# DR. DANIEL L. SILVERIO: Long Island Subsection.

EDUCATION: Ph.D. Boston College; B.S. University of Delaware. PRESENT POSITION: Assistant Professor of Chemistry, Adelphi University. ACS NEW YORK SECTION ACTIVITIES: Member since 2018; Director at Large 2019; High School Chemistry Olympiad committee 2019. NATIONAL ACS ACTIVITIES: Member since 2007; Organic Chemistry Division

(continued on page 32)

# ACS NEW YORK SECTION'S ELECTION BIOGRAPHIES

(continued from page 31)

# CANDIDATES FOR NEW YORK SECTION ALTERNATE COUNCILOR (3 YEAR TERM OF OFFICE 2021-2022)

#### VOTE FOR TWO



#### DR. ELMER-RICO E. MOJICA: New York Section

EDUCATION: University of the Philippines Los Banos B.S. 1998, and M.S. 2003 University at Buffalo

PRESENT POSITION: Associate Professor, Department of Chemistry and Physical Sciences, Pace University

ACS NEW YORK SECTION ACTIVITIES: Member since 2006; Coordinator of CCEW Illustrated Poetry (2018-present); Alternate Councilor 2020.

NATIONAL ACS ACTIVITIES: Member since 2012; Presented at various ACS national meetings



#### DR. ERIC P. CHANG: New York Section

EDUCATION: Biochemistry, B.S. Virginia Tech, 2008; Photochemical Sciences, Ph.D., Bowling Green State University, 2013

PRESENT POSITION: Assistant Professor, Department of Chemical and Physical Sciences, Pace University

ACS NEW YORK SECTION ACTIVITIES: New member, attended regional meetings in 2019 and 2020; Alternate Councilor 2020

NATIONAL ACS ACTIVITIES: Attending and mentoring student presenters at 2020 Philadelphia ACS National Meeting

# **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.

#### **Return Application To**

Freddie and Ada Brown Award, NJACS Section Office, 49 Pippens Way, Morristown, NJ 07960

#### Due Date

Completed Applications must be postmarked no later than March 31 Annually

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

# **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 NY the Section Home Page at https://www.newyorkacs.org 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 jespersn@stjohns.edu.

Please reach out to your members to consider sending recommendations for this award. All nominations must be submitted by the Division or Committee, after approval from the respective Chair.

# **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 CO<sub>2</sub> 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.

# \*

### SEMINAR SPEAKERS WANTED

The New York Section of the ACS is in search of speakers that we can add to our Speakers Bureau database of interested local area 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 contact the New York Section Office at (516) 883-7510 or send an email to Bernadette Taylor btaylor@NewYorkACS.org with the following information that will be posted on the Section's website: your name, affiliation, a 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 our other members!

# NICHOLS SYMPOSIUM RESCHEDULED

Dear NY ACS Section Member:

We are sorry to inform you that due to the outbreak of the Coronavirus in the New York area, the Executive Committee of the ACS New York Section feels it is in everyone's best interest to postpone the Nichols Symposium and Dinner on March 27 until Friday, October 23. Right now this date works with the hotel, the speakers and Dr. Matyjaszewski. If for some reason we need to change this date again, another announcement with those details will be sent.

We apologize for any inconvenience this may cause you. We hope you find that the new date works with your schedule. If you have already registered for this event and cannot attend, you will receive a full refund. We appreciate your patience as we work through this.

Wishing you best of health. Dr. Ruben Savizky 2020 Chair ACS-NY

# Deadline for items to be included in the JUNE 2020 issue of *The Indicator* is

# **APRIL 28, 2020**

The Indicator is usually posted to the web around the 15th of the previous month at

www.TheIndicator.org