

THE Indicator

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Dr. Ronald P. D'Amelia is Recipient of E. Emmet Reid Award at MARM 2016



*See Dr. D'Amelia's writeup on page 5 and
other MARM information on pages 6-9.*

National Chemistry Week

*See NY information on page 19 and
NoJ information on pages 23-25.*

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THIS MONTH IN CHEMICAL HISTORY

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

My last two columns were drawn from a new biography ("Pure Intelligence" by Melvyn C. Usselman) of the 19th. century English scientist William Wollaston. This final column on this important scientist will illustrate the varied nature and significance of Wollaston's contributions to the sciences.

Wollaston was a bachelor and some of his biographers have sketched him as a recluse, averse from society. In fact he was a sociable person, intimately involved with the affairs of the Royal Society, serving on its committees and attending its social events. In these gatherings he became acquainted with a number of geologists who stimulated in him an interest in their science and in particular in crystallography. He purchased many minerals and began a careful study of their properties and forms. Like most students of crystals of that period Wollaston was frustrated by the crude instruments used to determine interfacial angles in crystals. These were essentially glorified protractors called contact goniometers. With his understanding of optics Wollaston invented a new instrument, the reflective goniometer, which he described in a paper given to the Royal Society in 1809.

Its principle was brilliant and simple; the instrument measured the angles between light beams reflected from crystal faces and could accommodate quite small crystal samples, as small as 1/50th. of an inch. This instrument, which Wollaston did not patent, was soon being made by instrument manufacturers and became, and has remained, one of the most useful tools of mineralogists and crystallographers. With his interest in crystals aroused Wollaston began speculating on the underlying reasons for the plane faces and cleavages of crystals, though he was by no means the first to do so. In a Royal Society lecture of 1812 he showed how the basic forms suggested by Hauy and Robert Hook, the latter more than a century earlier, could be assembled in regular arrays to produce geometric forms that were exhibited in crystals. He built some models, which are still in the collection of the Science Museum in London, to illustrate his ideas.

This line of thought is suggestive of Dalton's view on the atomic theory, and Wollaston, a master of analytical chemistry, was an early supporter of Dalton's views. One consequence of the atomic theory is the law of multiple proportions. The atomic theory was first published in 1807 by Thomas Thomson, a Scottish chemist and textbook author. He based his description with attribution on discussions he had had with Dalton in 1804. In his textbook Thomson discussed the compositions of salts in terms of Dalton's law of multiple proportions. Coincidentally Wollaston had been analyzing various oxalates and tartrates, isolated from by-products of wine-making. He and Tennant began a manufactory of a range of organic compounds such as cream of tartar and oxalic acid, the latter for use in the textile industry. Wollaston's analyses of normal and acid oxalates were in accord with the law of multiple proportions and he published his results in the Royal Society's journal with the following appended remark: "The inquiry which I had designed appears to be superfluous, as all the facts that I had observed are but particular instances of the more general observation of Mr. DALTON, that in all cases the simple elements of bodies are disposed to unite atom to atom. [I leave to the reader to follow from Usselman's book how Wollaston first enthusiastically adopted Dalton's atomic theory; then abandoned it; and finally returned again to it.]

One final illustration of Wollaston's ingenuity in devising aids for chemists. As mentioned above he was an accomplished analytical chemist and early on endorsed the utility of equivalent weights in analytical calculations. To make the process of using equivalent weights even easier he developed his use of the slide rule into a dedicated slide rule that was engraved with equivalent weights. His logarithmic scale of equivalent weights was published in an article in 1813 and Wollaston produced a number of the instruments. Again he did not patent the idea and manufacturers in both Europe and the United States began to make and sell these instruments. Many science museums have examples of these slide rules in their collections.

In the mid-1820s Wollaston became ill. By 1828 he had problems writing clearly and had numbness in his limbs. He was eventually diagnosed with a brain tumor and on December 22, 1828, William Hyde Wollaston died at his home in London. He was 62 years old.

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Indicator** 

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

September Calendar

NEW YORK SECTION

Thursday, September 8, 2016

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See pages 10 and 11.

Thursday, September 8, 2016

Biochemical Topical Group
See pages 10 and 12.

Friday, September 9, 2016

Organic Topical Group
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Friday, September 16, 2016

New York Section Board Meeting
See page 10.

Friday, September 16, 2016

High School Teachers Topical Group
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Thursday, September 29, 2016

Long Island Subsection Board Meeting
See page 13.

also

Thursday, October 6, 2017

Long Island Subsection
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Thursday, November 3, 2016

Long Island Subsection
See page 15.

**Thursday, October 27, November 17,
and December 1, 2016**

Long Island Subsection Board Meeting
See page 15.

**Early October 2016, Early November
2016, Early December 2016, Early
February 2017**

Westchester Chemical Society
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Sunday, October 30, 2016

National Chemistry Week ChemExpo
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NORTH JERSEY SECTION

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Careers in Transition
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Tuesday, September 13, 2016

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Monday, September 26, 2016

North Jersey Section Executive Committee
Meeting
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also

Thursday, October 13, 2016

Drug Metabolism Discussion Group
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Saturday, October 22, 2016

National Chemistry Week ChemExpo
See pages 23-25.

**Deadline for items to be
included in the
October 2016 issue of
The Indicator is
August 28, 2016**

***The Indicator* is posted to
the web on the 15th of
the previous month at
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Dr. Ronald P. D'Amelia, E. Emmet Reid Awardee

Dr. Ronald P. D'Amelia is the recipient of the E. Emmet Reid Award in Chemistry Teaching and Research at Small Undergraduate Colleges in the American Chemical Society (ACS) Middle Atlantic Region (MARM). He was presented with the award on June 10th at the ACS MARM held at the College of Mount Saint Vincent, Riverdale New York. This award recognizes, encourages, and stimulates high quality teaching and research at small undergraduate institutions. Dr. D'Amelia is an Adjunct Full Professor of Chemistry at Hofstra University, Hempstead NY.

Dr. Ronald P. D'Amelia graduated with a B.S. degree in Chemistry from the City College of New York (CCNY). As a recipient of a NASA research grant and an Adelphi teaching fellowship, he earned his master's and doctoral degrees in Chemistry at Adelphi University, Garden City, N.Y. After graduate school, Dr. D'Amelia served in the Army Chemical Corps as an instructor at the Ft. McClellan Army Chemical School in Alabama. In 1971 he joined the Life Savers Company as a physical polymer chemist. After several company mergers, he was promoted to the rank of Director of Polymer Chemistry. He received 25 patents in the areas of reduced calorie fats, chewing gum technology and breath freshening ingredients. In 2000 he received the L.I. Innovator of the Year Award for developing the breath freshening technology used in the Life Saver's Breath Savers product. He retired after 32 years of continuous service from the Kraft/Nabisco Food Group as a Senior Principal Scientist, the second highest technical position in the Company.

Dr. D'Amelia first came to Hofstra University's Chemistry department in spring 1994. Former chairperson Dr. Rodney Finzel felt that it would be beneficial to the Hofstra Chemistry/Biochemistry students to have exposure to someone with industrial experience. Little did he know just how much impact Dr. D'Amelia would have on the entire Hofstra Chemistry program? In 2001 Dr. D'Amelia took on all the responsibilities of an active full-time faculty member. He conducts a full research program year-round and serves as an active member of several departmental committees. The benefits from his association with the Hofstra students and the university have been immeasurable.

Dr. D'Amelia has developed a research program that involves many undergraduate students. His research is very broad but generally focuses on the synthesis and characterization of polymers specifically polyvinyl alkyl esters and copolymers of polyvinyl acetates. He also focuses on the analytical application for the quantification of various substances using Differential Scanning Calorimetry (DSC), Fourier Transform Infrared Spectroscopy (FTIR) and Nuclear Magnetic Resonance Spectroscopy (NMR)

Dr. D'Amelia has published eight (8) peer review articles over the past 12 years with undergraduates. All of his publications and presentations have at least one undergraduate student as a co-author. His research program at Hofstra has inspired many students to go on to graduate school to pursue advanced degrees. He has served as editor for the ACS Celebrating Chemistry edition for National Chemistry Week (NCW) 2014 ("Sweet Side of Chemistry – Candy, October 2014). He has also reviewed eight (8) journal articles for the Journal of Chemical Education. As faculty advisor to the Hofstra chapter of the Student Members of the American Chemical Society (SMACS), Dr. D'Amelia guided the chapter for the past 8 years and the chapter was recently awarded with an outstanding rating.

Dr. D'Amelia is a professor with great knowledge of the subject material. He makes the class material clearly understandable while providing every day applications of science. Dr. D'Amelia really cares about the success of his students and helping them through the learning process. Dr. D'Amelia possesses a unique ability to inspire students to learn. He brings together a mix of lecture demonstrations, explanations and group discussions that challenge students to seek understanding rather than simply memorize facts or problem solving algorithms.

Dr. D'Amelia's students talk about his passion and enthusiasm he brings to his subject and research. Below are several comments testifying to his teaching ability.

"He is like the chemist grandfather I never had. He is deeply passionate about the subject matter and often references his own work in industry. His absolutely no B.S. attitude is an inspiration to all students"

"Dr. D'Amelia is a great teacher, always ready and willing to help. He goes the extra mile to make sure everyone understands. He also has a passion for Chemistry which is evident in his mastery of the subject. He is one of the best professors I have encountered at Hofstra"

Dr. Ronald P. D'Amelia is an exemplary teacher and research mentor. He is committed to excellence, puts forth the extra effort and cares for others. He always demonstrates to his students that he teaches what he believes and practices what he teaches.

News from MARM 2016

The 44th Annual Middle Atlantic Meeting was held June 9-12, 2016 at the College of Mount Saint Vincent. There were approximately 800 people in attendance. Approximately 150 undergraduate and 50 graduate/postdoc posters were presented.

The keynote address was given by Dr. Ronald Breslow on Saturday evening to approximately 120 participants.

On Friday evening approximately 60 people attended the annual awards dinner where the following awards were given:

- Dr. Ronald P. D'Amelia, the E. Emmett Reid Award
- St. John's University, the Stanley C. Israel Award
- Dr. Paris Svoronos, the E. Ann Nalley Award
- New York Section and Nichols Foundation, the P3 Award
- Mary Clavert, Excellence in High School Teaching

The New York Section also held a dinner and reception that was attended by approximately 80 people for the 125th Anniversary of the section on Saturday evening. Everyone was welcomed by Dr. Donna Nelson, President of the ACS, followed by a brief history of the Section given by Dr. Brian Gibney. The night was capped off by a brief talk by Dr. Ronald Breslow about the present chemistry he is conducting and a brief talk by Dr. Tiansing Diao, New York University, about the chemistry she is planning on doing.



Dr. Ronald P. D'Amelia receiving the E. Emmett Reid Award from ACS Director Pat Confalone.

(Photo courtesy of Besiana Kurti)

STANLEY C. ISRAEL AWARD

St. John's University Chemistry Department Received the Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences.

The Department of Chemistry received the 2016 Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences. Sponsored by the American Chemical Society (ACS) Committee on Minority Affairs, it is given to institutions and/or individuals whose policies have made it possible for people of diverse backgrounds to succeed in the field of chemistry.

Presented on June 10 at the 2016 Middle Atlantic Regional Meeting (MARM), the award was accepted on behalf of St. John's University by Alison Hyslop, Ph.D., Associate Professor and Chair of the Department of Chemistry.

Said Dr. Hyslop, "We were recognized primarily because the whole department pulls together to make its resources available to every student. We believe that everyone who comes through our doors should be able to succeed." Citing the effectiveness of faculty mentoring, career workshops, and making career-enhancing research opportunities accessible to undergraduates, Hyslop said "more than 50 percent of our graduates go on to medical or graduate school."

One student from St. John's University, Shenell Collins stated, "Being able to participate in collaborative learning gave me the immediate feeling that I belonged here and helped me overcome my self-doubts because I looked different. It was a liberating experience, and has gone a long way towards building my self-confidence," said Collins. Impressed by her aptitude for the field, faculty members encouraged her to apply for two outside career-enhancing academic research internships. "Their support of my goals, helped me expand my professional skills," Collins said. She also got a first-hand chance to experience the rigors of graduate school study and was able to decide to pursue her master's degree in inorganic chemistry at SJU.

Another student, Mario Rivera, an Army veteran who decided to pursue his degree in chemistry, is another success story. Grateful to the Chemistry Department and

Dr. Victor Cesare, for recognizing his potential, Rivera fell under the spell of the chemical sciences early in his undergraduate career. Rivera said, "I was very fortunate to be able to get involved in an ongoing study on antibiotics with Dr. Victor Cesare, which I am still engaged in today as a graduate student."

Extending its commitment to inclusiveness to exposing divergent student communities outside SJU to the attractions of chemistry, the Department also runs Chemistry is Fun sessions. "We invite elementary school students on campus, said Hyslop, "and introduce them to the world of chemistry."



St. John's University received the Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences. Pictured are Ralph Stephani, Marlon Moreno, ACS Director Pat Confalone, Heather Mann, Neil Jespersen, Gina Florio, David Brown, Chandini Pillai, Alison Hyslop, Kanwardeep Singh, Joseph Serafin, Daniel Amarante, and Keith Panick.

(Photo courtesy of Besiana Kurti)



E. ANN NALLEY AWARD

Dr. Paris Svoronos of Queensborough Community College (MARM 2016-Program co-chair, left) receives the E. Ann Nalley Award from Dr. Daniel Amarante (MARM 2016-General co-chair, right). The award recognizes the volunteer service of an individual to the local region of the American Chemical Society.

(Photo courtesy of Besiana Kurti)

PARTNERS FOR PROGRESS AND PROSPERITY AWARD

Recipients of the P3, Partners for Progress and Prosperity Award. From left to right, ACS Director Laura Pence, Hope Nichols Prockop, and Brian Gibney.

(Photo courtesy of Besiana Kurti)



EXCELLENCE IN HIGH SCHOOL TEACHING AWARD

Mary Calvert, winner of the Excellence in High School Teaching Award, attended The University of Illinois in Champaign-Urbana earning a B.S. in Chemistry. After working in industry for a couple of years, she went back to school and earned a master's in Chemistry from Princeton University. Calvert taught at the College of New Jersey before teaching at The Lawrenceville School where she has taught for the last 18 years. Calvert holds Lawrenceville's Oscar H. McPherson '01 Distinguished Teaching Chair. In 2012, she received Lawrenceville's Henry C. Woods Faculty Award for Service to the School and in 2000 she was honored with the School's Ritter Award for Fostering a Nurturing Academic Environment. Calvert has also chaperoned Lawrenceville International Programs trips to Austria, Cuba, and Germany.



Mary Calvert



125th Anniversary
NYACS
NEW YORK SECTION of the
AMERICAN CHEMICAL SOCIETY

On June 11, 2016, the New York Section of the American Chemical Society celebrated its 125th Anniversary at the 44th Middle Atlantic Regional Meeting at the College of Mount Saint Vincent in Riverdale, New York. The theme for the dinner and the meeting was "Chemistry: Past, Present and Future."

At the dinner, Dr. Alison G. Hyslop, 2016 Chair of the ACS New York Section, welcomed the guests and introduced the speakers. The Section was very honored to have Dr. Donna J. Nelson, President of the ACS, offer greetings and congratulations from the American Chemical Society. She was followed by Dr. Thomas Donnelly, CEO and Executive Director of the ACS who also offered congratulations to the Section.

In following the theme for the evening, the first speaker, Dr. Brian Gibney, Brooklyn College and Graduate Center City University of New York and Chair-Elect of the New York Section, spoke on "Chemistry Past" and gave a brief history of the Section and placed the history in the context of the times. Dr. Ronald Breslow, Columbia University, presented on "Chemistry Present" and gave some insight into the how chemistry will impact our future. The dinner ended with a talk by Dr. Diao Tanning of New York University looking at "Chemistry Future" and talking on "Bimolecular Strategies for Sustainable Chemical Syntheses".

The 125th Anniversary Dinner for the New York Section surely was a successful and grand event enjoyed by many!

WESTCHESTER CHEMICAL SOCIETY

Two board members of the Westchester Chemical Society contributed to MARM 2016, held June 9-12, 2016 at the College of Mount Saint Vincent in the Bronx, NY. Dr. Paul Dillon, co-chair and co-program-director of WCS, and a director-at-large of the NY Section, organized and chaired a Clinical Diagnostics Session (June 9). In addition, Paul gave an introductory talk ("Clinical Diagnostics: An Overview," MARM 1) at that session. This talk introduced some of the unique features of clinical diagnostics as compared to "classical" analytical chemistry. These include, most importantly, considerable government regulation, a restricted range of sample types (most commonly blood derived samples [whole blood, lysed whole blood, sera, plasma and dried blood spots], urine, cerebrospinal fluid, amniotic fluid and even saliva, sweat and breath), extensive automation, very high throughputs, very small sample sizes, very low analyte concentrations, and high importance of clinical, as well analytical, sensitivity and specificity (for example, an analytically true positive result, say of prostate specific antigen, may be a clinical false positive result, if, say, the patient has an enlarged prostate

rather than the clinically relevant prostate cancer).

Dr. Peter Corfield, Treasurer, Education Director and acting Secretary of WCS, gave two talks.

The first, "William H. Nichols Entry into the Nineteenth Century Chemical Industry" (MARM 67), was part of the History of Chemistry in the New York Local Section session (June 10). Nichols at an early age started a chemical manufacturing company, which through many mergers, ultimately became Allied Chemical. He was one of the founders of the American Chemical Society and of its NY Section. He established the William H. Nichols Medal, which is still supported by the Nichols family and the Nichols Foundation. Peter outlined Nichols' contribution in the context of the state of the chemical industry in New York during the latter part of the nineteenth century.

Peter's second talk, "New Mixed-Valence Copper Cyanide Polymers" (MARM 304), was part of the Inorganic Chemistry session (June 11). He described the syntheses and X-ray structural characterization of a number of compounds prepared by undergraduate student co-authors, A. Sabatino, E. Cleary, J. Michalski and P. Luu.



Paul Dillon

(Photo courtesy of Paul Dillon)



Peter Corfield

(Photo courtesy of Besiana Kuti)

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New York Meetings

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NEW YORK SECTION BOARD MEETING DATES FOR 2016

The dates for the Board Meetings of the ACS New York Section for 2016 have been 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 ought to inform the New York Section office by emailing Mrs. Marilyn Jespersen at njesper1@optonline.net or by calling the Section office at (516) 883-7510.

All 2016 Board Meetings will be held on the following dates at St. John's University, 8000 Utopia Parkway, Jamaica, NY. Dr. Alison Hyslop will chair all meetings. Refreshments will be available starting at 6:00 PM while the actual meeting will start at exactly 6:30 PM. Please check Marilyn Jespersen for the exact building and room number. You may also be added in the mailing list if you so desire.

The board meetings dates for 2016 will be

Friday, September 16, 2016

Friday, November 18, 2016

More information will be posted in future monthly issues of *The Indicator* and on the New York website at

<http://www.NewYorkACS.org>



CHEMICAL MARKETING & ECONOMICS (CM&E) GROUP

Sustainable Packaging: What is Next?

Speaker: Emile Homs, PhD, LLM

Date: Thursday, September 8, 2016

Times: 11:00 AM. - 2:00 PM

Place: Penn Club
304 West 44 Street
New York, NY

For more information, see flyer on page 11.



BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NY ACADEMY OF SCIENCES BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP

Targeting Inflammation and Podocytopathy in Chronic Kidney Disease

Organizers: Carine Boustany, PhD, PharmD
Boehringer Ingelheim

Scott MacDonnell, PhD
Regeneron

Jay J. Kuo, PhD
Boehringer Ingelheim

Sonya Dougal, PhD
The New York Academy of Sciences

Caitlin McOmish, PhD
The New York Academy of Sciences

Speakers: Hans-Joachim Anders, MD
University of Munich

John Cijiang He, MD, PhD
Icahn School of Medicine at Mount Sinai

Matthias Kretzler, MD
University of Michigan

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SUSTAINABLE PACKAGING: WHAT IS NEXT

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Abstract

The sustainable packaging market, valued at US\$ 201.6 Billion in 2014, will grow to US\$ 303.6 Billion by 2020, a projected CAGR of more than 7%, as estimated by Packaging Strategies. Sustainable packaging has the fundamental attribute of being beneficial, safe and healthy for individuals and communities throughout its life cycle, according to the Sustainable Packaging Coalition.

Materials innovation, the Paris 21st Conference of the Parties (COP21) to the UN Framework Convention on Climate Change (UNFCCC), and the UN Sustainable Development Goals, further driven by consumer preferences, local regulations, and potential for value creation, have been fueling this market.

Join us to hear expert insights on how strategy and technology combined with “Remove, Reduce, Recycle, Renew, Reuse”, and particularly, “Re-think”, will further guide the industry as it journeys towards a sustainable future.

Event Schedule

Location:
Penn Club
30 W 44th Street, NYC

Event Times: (ET)
11:15 am - 12:00 noon
Registration and
Networking
12 noon - 1 pm Luncheon
1 pm - 2 pm Talk - Webcast

Luncheon Fees
\$120 for non-members
\$90 for members
Check for Early-bird savings
Webcast: \$30. Free webcast
recording for ACS members



Speaker: Emile Homsy, Ph.D., LLM, is currently the SABIC Global leader for The Polymer Application Technology Group covering 5 global regions and responsible for devising new solutions to complex industry challenges.

SABIC is the first chemicals company to offer both PE and PP resins based on renewable sources. These unique ISCC Plus-accredited renewable resins that help meet increased regulatory demands are created from waste fats and oils. They do not compete with the food chain and require 84% less fossil fuel to produce than typical polyolefins. They enable SABIC, and its stakeholders, to reduce the collective carbon footprint and to save fossil feedstocks for future generations.

Emile has worked for major players in the High Performance Engineered Polymer Industry such as Honeywell, BASF and DSM. He was Americas VP of Research and Technology for DSM.

He has led technical market development in Healthcare, Appliances, Oil & Gas, Automotive, Sports Equipment, Aerospace, and others. He is fluent in English, French, Spanish and Arabic. He has a PhD in Mechanical Engineering; a Masters in Technology Management; Masters Studies in Biomedical Sciences; and a Masters in Laws in International Tax and Finance.



Moderator: Tamal Ghosh, PhD, is an expert in polymer engineering, specifically in application and market development for Sustainable Packaging. Bio-derived Polymers, Polymer Composites, and Barrier Coatings. After two decades of global industry experience at Engelhard, Ciba Specialty Chemicals and PepsiCo, he now works as an independent consultant based in the New York City area. He has made over 35 presentations at conventions around the world, authored 15 scientific and technical articles, and is a co-inventor on 10 granted and pending patents. Tamal serves as

International Association of Packaging Research Institutes (IAPRI). He was appointed an “Honorary Fellow” at Indian Institute of Technology – Roorkee’s Packaging Program, and a member of Packaging Advisory Board at CalPoly, San Luis Obispo. Tamal received a PhD in Polymer Engineering from École Polytechnique de Montréal, and a Masters in Technology Management from Stevens Institute of Technology.

BIOCHEMICAL TOPICAL GROUP

(continued from page 10)

Kevin V. Lemley, MD, PhD
University of Southern
California

Jochen Reiser, MD, PhD
Rush University Medical
Center

Katalin Susztak, MD, PhD
University of Pennsylvania

Roger C. Wiggins, MB, BChir
University of Michigan

This symposium will focus on new insights into renal inflammatory pathobiology and the mechanisms of podocyte dysfunction to help guide innovative therapeutic approaches for this growing health concern. The symposium will also address areas of knowledge gaps, including the nature of the infiltrating immune cell type, the temporal contribution of inflammation to human disease progression, and the safety of anti-inflammatory drugs in patient populations prone to infections (including persons with diabetes).

Date: Thursday, September 8, 2016

Time: 8:30 AM – 5:00 PM (reception to follow)

Place: The New York Academy of Sciences
7 World Trade Center
250 Greenwich Street – 40th Floor
New York, NY

Cost: This event is has reduced-rate registration for ACS and NYAS members, at \$60 or \$30 (for students and post-docs). Please select the appropriate non-member. Registration Category and use the Priority Code ACS. Non-members may attend for a fee of \$160 (corporate), \$105 (non-profit or academic) or \$70 (students and post-docs).

For more information and to register for the event, go to: www.nyas.org/CKD2016.

To become a Member of the Academy, visit www.nyas.org/benefits.

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

Protein Engineering and Protein Therapeutics

Organizers: Jonathan Lai, PhD
Albert Einstein College of
Medicine

Sonya Dougal, PhD
The New York Academy of
Sciences

Caitlin McOmish, PhD
The New York Academy of
Sciences

Speakers: Shohei Koide, PhD
NYU Langone Medical Center

Jonathan Lai, PhD
Albert Einstein College of
Medicine

Jim Wells, PhD
University of California
San Francisco

Manoj Charati, PhD
Pfizer

Protein and antibody therapeutics ("biologics") have revolutionized modern medicine, allowing breakthroughs in treatment of cancer, cardiovascular disease, inflammation, and infectious disease. Recent advances in protein engineering methods have allowed access to novel therapeutic modalities, and provided capabilities to endow molecules with enhanced properties such as the ability to bind two or more targets simultaneously or to exhibit exquisite specificity towards particular post-translational modifications. This symposium will highlight state-of-the-art technologies in protein and antibody engineering, and antibody-drug conjugates. The implementation of these methods to specific diseases, or to develop unique research tools, will be discussed.

Date: Friday, September 9, 2016

Time: 12:00 – 5:00 PM

Place: The New York Academy of Sciences
7 World Trade Center
250 Greenwich Street – 40th Floor
New York, NY

Cost: This event is FREE for ACS and NYAS members. 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/Biologics.

To become a Member of the Academy, visit www.nyas.org/benefits



HIGH SCHOOL TEACHERS TOPICAL GROUP

Water Quality and Sustainability of the Hudson River Estuary

Speaker: Kevin J. Farley
Department of Civil and
Environmental Engineering
Manhattan College
Riverdale NY

The Hudson River like other estuaries throughout the world serves an important function as a transitional zone between inland freshwaters and the sea. Physical, chemical and biological attributes that make the Hudson River Estuary a valuable and productive ecosystem, have attracted large populations to their shores. In the process, the estuary and the urban landscape have become intertwined. Effects on water quality and biological resources have varied, with the Hudson being very resilient to some human impacts and yet very vulnerable to many others. The impacts of human development on the Hudson River serve as a good example of past, present and future challenges in managing our “urbanized” estuaries. This presentation will therefore begin with a description of the physical, chemical and biological characteristics that contribute to the unique character of the Hudson River Estuary. A summary of human development and its impact on water quality of the Hudson and its adjoining waters is then presented. This is followed by a discussion of efforts that have been enacted to improve water quality and programs that are being considered to restore or enhance the ecological function of the estuary. As part of this discussion, specific attention will be given to PCB contamination and its impacts on the Hudson River striped bass fishery and on dredged material man-

agement for New York-New Jersey Harbor.

Date: Friday, September 16, 2016

Time: Social and Dinner — 5:45 PM

Place: Social and Dinner — Thomas Hall, Manhattan College campus.

Thomas Hall offers an all-you-can-eat dinner from over 16 dining stations for \$12 (cash or credit card) from 5:00 to 8:00 PM, and it is a short walk from there to Hayden Hall.

Time: Meeting — 7:15 PM

Place: Meeting — Hayden Hall, Room 100, Manhattan College — accessed from the 242 St. Station on the #1 subway line.



LONG ISLAND SUBSECTION

Board Meeting

Date: Thursdays, September 29, 2016

Times: 6:30 PM

Place: Nassau Community College
Life Sciences Building
Chemistry Department Office
2nd Floor



ACS NEW YORK SECTION'S 2016 ELECTION RESULTS

The results of the ACS New York Section's 2016 elections were announced at the Board of Directors meeting in June. The New York Section extends a sincere thank you to all of the candidates and expresses its appreciation for their time and efforts in preparing for the elections. Congratulations to the newly elected officers.

Chair-Elect 2017

Joseph M. Serafin (St. John's University)

Secretary 2017-2018

Daniel Amarante (College of Mount Saint Vincent)

Directors-at-Large 2017

Rachel N. Austin (Barnard College)

Jessica Epstein (St. Peter's University)

Michele Vittadello (The Graduate Center — City University of New York)

(continued on page 14)

ELECTION RESULTS

(continued from page 13)

Councilor 2017-2019

Alison G. Hyslop (St. John's University)
Neil D. Jespersen (St. John's University)
Frank R. Romano (Agilent Technologies)

Alternate Councilor 2017-2019

Donald D. Clarke (Fordham University)
Joan A Laredo-Liddell (Concordia College)
Patricia A. Redden (St. Peter's University)



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 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.



LONG ISLAND SUBSECTION

FUTURE MEETINGS

A Systematic Review and Meta-analysis of the Effectiveness of Tobacco Related Interventions Among Adult Individuals with Either Mild/Moderate Intellectual Disabilities or Mental Illness

Speaker: Dr. Simone E. Edwards
United Cerebral Palsy of
New York City, NY

Purpose: The prevalence of tobacco-related issues among individuals with Intellectual Disabilities (ID) and Mental Illness (MI) is of great importance to public health officials because smoking activities often lead to chronic health conditions. Chronic health conditions are the leading causes of death in the United States. Since individuals with mental illnesses use tobacco at greater rates, they suffer greater smoking-related

medical illnesses and mortality. The vast majority of these individuals struggle with competency and as a means to increase their self-esteem and to boost confidence, they choose to smoke. Unfortunately, they often find it difficult to quit. The purpose of this study is to improve the precision and power of the data that focuses on the effectiveness of smoking cessation interventions for individuals with ID/MI.

Methods: The first step of the methodological process was to conduct a systematic review of the literature on tobacco-related health interventions geared towards ID/MI individuals. The second step was to use relevant quantitative information extracted from studies of interest to conduct a meta-analysis. This study technique ultimately aided in pooling and quantifying the surge of smoking cessation intervention data in the field in order to provide valuable information for researchers, policy-makers, and clinicians.

Results: Sixteen studies met the primary inclusion criteria of adult individuals with ID or MI who participated in a tobacco related intervention study. Of the sixteen, 30% were geared towards individuals with ID and the other 60% were geared towards MI individuals. However, only studies that focused on MI individuals were qualified for the meta-analysis because they were either a randomized controlled trial or clinical controlled trial. The other trials were used as a narrative of the results. The effect sizes were calculated using RevMan 5.3, using a relative risk ratio test statistics, which yielded an overall significant effect (RR 1.44, CI 1.09-1.90, I²= 0%). The results of the post-treatment long-term follow-up data were nearly identical and not heterogeneous, which indicates that the results represent true effects and were likely not a result of sampling error.

Conclusions: The effectiveness of smoking cessation interventions for the treatment of MI smokers is promising, as evidenced by the small, positive effects in this present study. In addition, the MI interventions included were significantly more effective for long-term cessation than no treatment at all. On the other hand, future research for the ID population should be conducted using a randomized controlled trial or clinical controlled trial so as to increase their statistical power.

Date: Thursday, October 6, 2016

Times: Social – 5:30 PM

Seminar – 6:00 PM

Place: CUNY Queensborough
Community College
Science Building, S-111

Directions: <http://www.qcc.cuny.edu/about/driving.html>

Title: TBA

Speaker: Dr. Sujun Wei
Queensborough Community
College— CUNY
Bayside, NY

Abstract: TBA

Date: Thursday, November 3, 2016

Times: Social – 5:30 PM
Seminar – 6:00 PM

Place: CUNY Queensborough
Community College
Science Building, S-111

Directions: <http://www.qcc.cuny.edu/about/driving.html>



LONG ISLAND SUBSECTION

Future Board Meetings:

**Dates: Thursdays, October 27 and
November 17, 2016**

Times: 6:30 PM

Place: Nassau Community College
Life Sciences Building
Chemistry Department Office
2nd Floor

Holiday seminar and election

Date: Thursday, December 1, 2016

Time: 5:30 PM

Place: Nassau Community College



WESTCHESTER CHEMICAL SOCIETY

FUTURE MEETINGS

Note: All dates are tentative.

Special Seminar – “Clinical Diagnostics: An Overview”

Speaker: Paul Dillon, PhD
Biostatistical Consultant (through
Randstad Sourceright,
Alpharetta, GA)
Siemens Healthineers
Tarrytown, NY
Co-Chair, Westchester
Chemical Society

Director at Large, NY Section of
the American Chemical Society

Although “Classic” analytical chemistry informs much of Clinical Diagnostics, there are some important differences. Diagnostics use a limited range of sample types, most commonly blood and urine. Sample matrices have a more limited range than in general analytical chemistry.

Diagnostics are highly automated; instruments perform a wide range of analyses, randomly, with high throughput (up to 2000+ assays/hour). Typical analyses include clinical chemistries (e.g., glucose, enzyme activity), immunoassays, nucleic acid tests, and cytometry.

Not all analytes are well-defined molecular species. Some may be polymers of varying MW, some have a range of similar species, and some may have various forms (e.g., free and bound thyroxine). Assay standardization is important.

Unlike “Classic” quantitative analyses, which often drive reactions to completion, many diagnostics are kinetic with fixed times, requiring calibration with materials of known concentration.

Concentrations may be extremely low (pg/mL range) and the volume of sample for a single test may also be very low (1 to a couple of hundred μ L).

In addition to analytical sensitivity and specificity, clinical sensitivity and specificity and predictive values can be crucial. Indices computed from multiple analyses are often used to ensure clinical relevance.

Clinical diagnostics are highly regulated, in the US by FDA. Clinical trials are conducted under GCP (Good Clinical Practice), and manufacturing follows GMP (Good Manufacturing Practice) rules. Sites may be inspected. Manufacturing systems, R&D studies, QA systems, complaint handling systems, materials, product labels, etc. will be reviewed. Reagent, calibrator, control and sample stability are all important.

Note that all comments are the opinions of myself not necessarily of Randstad Sourceright or Siemens Healthineers.

This is an expanded version of the talk that I gave at the Clinical Diagnostics Session of the 44th Middle Atlantic Regional Meeting, Bronx, NY, June 9, 2016.

(continued on page 16)

WESTCHESTER CHEMICAL SOCIETY

(continued from page 15)

Dr. Dillon obtained his B.S. degree in chemistry at the Polytechnic Institute of Brooklyn (now the Tandon School of Engineering of New York University), and his M.S. and Ph.D. degrees in chemistry at New York University. His early work with Union Carbide earned him an award from the Federation of Societies for Coatings Technology for his concept of critical relative humidity. While at Union Carbide, he became an internal consultant in applied statistics and mathematics concentrating on statistical design and analysis of multivariate experiments, engineering statistics and process simulations. For more than twenty-five years, Paul has been a biostatistician at Siemens Healthcare Diagnostics (and its corporate predecessors, Technicon Instruments and Bayer Diagnostics). Paul has contributed to the development and evaluation of classical clinical chemistry tests, immunoassays, and kinetic PCR assays on both existing and newly developed platforms. Since his retirement in 2012, Paul has continued (through Randstad Sourceright) as a biostatistical consultant for Siemens (now Siemens Healthineers). Paul is also co-chair and co-program director of the Westchester Chemical Society, a director at large for the NY Section of the American Chemical Society, and just recently became a co-chair of their Senior Chemists Group.

Tentative

Date: Early October, 2016

Times: Refreshments 5:30 PM
Lecture 6:00 PM

Place: Westchester Community College
Gateway Building, Room 110
75 Grasslands Road
Valhalla, NY

Cost: Free and Open to the Public

Further Information: Paul Dillon
PaulWDillon@hotmail.com
(914) 393-6940

Or:

Anthony Durante
anthony.durante@bcc.cuny.edu
(718) 289-5542 or 5569

Note: Inclement Weather: Cancellation Due to Inclement Weather

Should Westchester Community College's Valhalla campus close due to inclement weather (or has delayed opening or closes early) the meeting will be cancelled. Decisions about delay/closure are made around 6:00 AM for day courses and 3:00 PM for evening courses. The college will communicate delays, closings or early dismissals on their website (www.sunywcc.edu), Facebook, Twitter, and the (914) 606-6900 phone line.

Special Seminar – “Competitive AlphaScreen® Assay for Hyaluronan Detection”

Speaker: Xiayun Huang
Tandon School of Engineering
New York University
New York, NY

Tentative

Date: Early November, 2016

For Times, Place, Cost, and Further Information, see left-hand column.

Special Seminar – “Effects of Overhanging Analyte Oligo Tails in Model DNA and Morpholino Arrays”

Speaker: Ursula Koniges
Tandon School of Engineering
New York University,
Brooklyn, NY

Tentative

Date: Early December, 2016

For Times, Place, Cost, and Further Information, see left-hand column.

Special Seminar – “Yes, But Why Sulfuric Acid? - Young William H Nichols Entry into 19th Century Chemical Industry”

Speaker: Peter Corfield, PhD
Department of Chemistry
Fordham University
Bronx, NY

Tentative

Date: Early February, 2017

For Times, Place, Cost, and Further Information, see left-hand column.

THE NEW YORK CHEMISTRY STUDENT ACTIVITIES COMMITTEE – 2016 ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM (64th URS) HIGHLIGHTS

The Student Activities Committee of the New York Section of the American Chemical Society held its 64th URS on Saturday, May 7th, 2016, at Lehman College – CUNY in Bronx, N.Y. Approximately 101 presentations were made from undergraduates representing 31 different colleges and universities. There were 22 concurrent sessions in the areas of: Analytical Chemistry, Biochemistry, Green Chemistry, Inorganic Chemistry, Organic Chemistry, Nano- and Surface Chemistry, Physical Chemistry, and Polymer Chemistry. Opening remarks were given by URS Co-Chairs Paul Sideris and Naphtali O'Connor, Lehman College Provost Dr. Anny Morrobel-Sosa, and the 2016 Chair of the New York Section of the American Chemical Society, Dr. Alison Hyslop. Naphtali O'Connor introduced the keynote speaker, Dr. Scott D. Edmondson from Merck and Co. Inc. Dr. Edmondson's keynote address was titled, "Stories of Drug Discovery: Discovery of Januvia™ (Sitagliptin) For Diabetes And Vibegron For Overactive Bladder."

The abstract of the keynote address is reproduced below:

"Inhibition of dipeptidyl peptidase 4 (DPP-4) is now an established method for the treatment of type 2 diabetes. At Merck, the DPP-4 inhibitor program was initiated in 1999 and shortly thereafter the medicinal chemistry team began optimization of two distinct classes of inhibitors derived from either α -amino amides or β -amino amides. Importantly, early research from our laboratories illustrated that the selection of DPP-4 inhibitors for clinical development should take into account selectivity over related enzymes DPP8 and DPP9 which have been associated with toxicity in preclinical species. Optimization of the β -amino amide series led to the discovery of JANUVIA™ (sitagliptin), the first DPP-4 inhibitor approved for the treatment of type 2 diabetes. β 3 Adrenergic receptor (AR) agonists were studied in the 1990's as a treatment for obesity, but development of early compounds was terminated due to a lack of sustained efficacy in humans for obesity. Subsequent preclinical studies suggested that β 3-AR agonists could be repurposed as a treatment for overactive bladder (OAB), and the recent approval of mirabegron confirmed that β 3-AR agonists are effective in humans for this indication. Although an early β 3-AR agonist from Merck (MK-0634) was successful in the clinic for the treatment of OAB, further development of the compound was halted due to toxicities in preclinical species. A back-up program identified vibegron (MK-4618) as a potential best-in-class β 3-AR agonist that addresses many of the liabilities associated with MK-0634 and is currently in Phase 3 clinical trials for the treatment of OAB. This presentation will describe biology, medicinal chemistry, and clinical development of JANUVIATM (sitagliptin) and vibegron."

After several questions from the audience, a group photo was taken. The students were then directed to their presentation rooms. After the student presentations, the attendees gathered for lunch. URS Co-Chairs Meredith Foley and Ipsita Banerjee distributed participation certificates and commemorative gifts to the students, moderators and sponsors. At the conclusion of the day, there was an ice cream social, during which a Kaplan sponsored raffle drawing for a free MCAT or GRE course was held. The winning raffle ticket went to a student from The City College of New York. *(continued on page 18)*

Pictures of the event can be seen at: <https://youtu.be/DcYrEOmXe2A>

All the photos included here and on page 18 were provided by Arpi Pap of Pap Studio.



2016 ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

(continued from page 17)



Keynote Address



Keynote Speaker, Scott D. Edmondson, and the 2016 Student Activity Committee Co-Chairs. Left to right: Paul Sideris, Ipsita Banerjee, Scott D. Edmondson, Meredith Foley, and Naphtali O'Connor.



Lunch and Awards Ceremony

New York Section — National Chemistry Week Activities



Help the New York Section of
the American Chemical Society to celebrate
National Chemistry Week 2016
with the theme

“Solving Mysteries through Chemistry!”

- When:** Sunday, October 30, 2016 (11 AM – 4 PM)
Where: [New York Hall of Science \(NYSCI\)](#), Flushing, Queens
What: Over 20 tables of hands-on experiments, activities, demonstrations, and giveaways. Special photo opportunities. FREE admission to NYSCI between 10-11 AM.
Who: Last year, activities were presented by 250 volunteers and engaged more than 1,000 community youth and parents. Participants included some of the New York's most prestigious colleges, universities and industries.

The New York Section needs your help to make this year's National Chemistry Week (NCW) Celebration another success! If you and your organization are interested in **sponsoring an activity table** at and/or **making a donation** to support the event, please contact **Dr. Ping Furlan** (furlanp@usmma.edu), **Dr. Scott Lefurgy** (Scott.T.Lefurgy@hofstra.edu), or **Mrs. Erin Wasserman** (illustrated poem contest coordinator, ewasserman602z@gmail.com). Please include activities highlighting the yearly theme, “Solving Mysteries through Chemistry!” Volunteers' parking at NYSCI is FREE.

For more information about the NCW celebration in New York, visit the New York Section's website at http://www.newyorkacs.org/meetings/NCW/2016_ncw.php.

You can also find additional information about NCW on the American Chemical Society's website at <https://www.acs.org/content/acs/en/education/outreach/ncw/about.html>.



New York Local Section, American Chemical Society, <http://www.newyorkacs.org/>

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING AND PROJECT SEED POSTER SESSION

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. Project SEED will hold its poster session and a dinner prior to the September Executive Committee Meeting.

All NJACS members are most welcome to all events. Attendees of the poster session who volunteer to serve as judges receive a free dinner!

Date: Monday, September 26, 2016

Times: Project SEED Poster Session
4:00 - 6:00 PM

Place: Seton Hall University
University Center, Main Lounge

Times: Dinner follows Poster Session
Executive Meeting 7:30 - 9:00 PM

Place: University Club, Room 201
Seton Hall University
400 South Orange Avenue
South Orange, NJ

Cost: Dinner cost of \$35 is payable at the door, no charge for judges of posters and 2016 ACS award winner.

For reservations please call NJACS secretary Bettyann Howson (973) 822-2575 or email chemphun@gmail.com or register online at <http://www.njacs.org> prior to **Wednesday, September 21, 2016.**

No shows are kindly asked to provide advance notice



CAREERS IN TRANSITION MEETINGS

Job Hunting??

Resume & LinkedIn writing and key word search rules are changing. To be found, come and utilize our latest insights. Our ACS trained Career Consultants offer assistance at Students2Science to help members with their job search on the second Monday of each month. Topics at this free workshop are:

- Techniques to enhance resume effectiveness
- Interview practice along with responding to difficult questions
- Networking to find hidden jobs
- Planning a more effective job search

Date: Monday, September 12, 2016

New from now on is a second CIT meeting in East Windsor on the third Monday. Contact Bill for details.

Times: Meeting 2:30 - 5:00 PM

Place: Students 2 Science, Inc.
66 Deforest Avenue
East Hanover, NJ

Cost: No charge

Reservations: at www.njacs.org/careers.html

A job board and networking assistance is offered at most topical group meetings. Appointments with Bill can be arranged for personal assistance at (908) 875-9069 or billsuits@earthlink.net.

See www.njacs.org under the Career tab for Jobs hidden from sight and relevant blogs.



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NJACS PARTNERS WITH STUDENTS2SCIENCE

Members are encouraged to volunteer at their East Hanover facility and explore their website at www.students2science.org to learn more about this innovative program.

S2S continues to expand their exciting laboratory experience the disadvantaged children. Many of our members continue to volunteer as mentors. At their 2 million dollar analytical lab, every 40 kids are assisted by 16 professional volunteer mentors. The experiments performed really make chemistry and science come alive using state of the art analytical equipment working with students starting in 6th grade up to HS seniors. Each day is optimized for grade level and curriculum.

Now the program has further expanded with internet video and experiments performed in the classroom for 4th & 5th grades. Internet allows views of the lab in operation and relates to simpler experiments setups done in the classroom with their teacher and a partnering chemist.

North Jersey members who volunteered benefited in many ways. Those in transition expanded their network and received job finding assistance. Retired chemists met up with old friends and made many new friends. Those with jobs used the volunteer hours as part of the company outreach programs and team training. All feel great about making a difference in the lives of the youth who may have never met a scientist or considered a career in the sciences.

Please consider volunteering and discovering more about this innovative program. If you want to learn more, you can speak with Don Truss at (908) 334-8435.



NoJ MASS SPECTROMETRY DISCUSSION GROUP

Annual Fall Symposium, Vendor Night & Poster Session

Speaker: Gary J. Van Berkel, PhD
Oak Ridge National Laboratory

Every autumn the NJ Mass Spec Discussion Group holds our Annual Fall Symposium, Vendor Night & Poster Session, and this year the date is set for **Tuesday, September 13**.

We are delighted to announce, and privi-

leged to welcome Dr. Gary Van Berkel, who currently holds a joint faculty position at the Bredesen Center for Interdisciplinary Research and Graduate Education, University of Tennessee, Knoxville and Group Leader and Distinguished Research Staff, Mass Spectrometry and Laser Spectroscopy Group, Oak Ridge National Laboratory. Much of Dr. Van Berkel's work has been combining the power of mass spectrometry and microscopy, and he is the recipient of many prestigious awards including the Biemann Medal from ASMS. If you would like to learn more about Dr. Van Berkel's work please visit their website: http://web.ornl.gov/sci/ms_imaging_center/.

Further details will be available via Facebook (www.facebook.com/NJACSMSDG), Twitter (NJACSMSDG), or at www.njacs.org (Topical Group: Mass Spectrometry). If you interested in a vendor table at this event, please contact Jasmine Lu at (732) 893-5405.

Date: Tuesday, September 13, 2016

Times: Poster Session and Vendor Exhibits 3:00 PM

Place: Holiday Inn
195 Davidson Avenue
Somerset, NJ

Kathleen Anderson, NJMSDG Director of Communications



CANDIDATES FOR THE FALL 2016 ACS NORTH JERSEY SECTION ELECTION

The ACS North Jersey Section Nominating Committee is announcing the slate of candidates who will appear on the fall 2016 ballot. They are:

Candidates for Chair-Elect, 2017:

Amjad Ali
Miriam Gulotta

Candidate for Treasurer:

Jacqueline Erickson

Candidates for Councilor:

Amjad Ali
Mirlinda Biba
Jeannette Brown
Bettyann Howson
Jasmine Lu
Les McQuire
Bill Suits

NoJ DRUG METABOLISM DISCUSSION GROUP

Fall Meeting: "Translational Advances in Drug Disposition and Toxicity: Emerging Technologies and Tools"

Mark your calendars for the next NJDMDG Symposium,

- Please plan to pre-register as a group, as coordinated by a member of the NJACS DMDG steering committee from your organization (see list). If you have no DMDG member at your company, please contact Lauren Aleksunes (aleksunes@ehsi.rutgers.edu) for registration.
- Payments by personal or company checks. Sorry, credit cards are not accepted.

- Checks should be made payable to: NJ Drug Metabolism Discussion Group.

Exhibitors:

- Please contact Anima Ghosal (ghosala@aol.com) for information concerning exhibits

Date: Thursday, October 13, 2016

Times: 8:45 AM - 4:00 PM

Place: The Palace at Somerset
333 Davidson Avenue
Somerset, NJ

Cost: Pre-registration fee is \$125 (pre-register by October 7, 2016). Registration fee at the door is \$150 (Checks only)
Registration fee is \$10 for students and postdocs and \$50 for faculty
Registration is free for unemployed

COME, JOIN US!



NoJ Section — National Chemistry Week News, pp.23-25

ChemExpo 2016

at Liberty Science Center



Saturday, October 22, 2016
10 a.m. - 2 p.m.

"SOLVING MYSTERIES THROUGH CHEMISTRY"

Join us for a fun-filled day
of hands-on science activities presented by area chemists,
college and high school chemistry teachers and students.

Visit Liberty Science Center
and enjoy this additional family-friendly event for all ages
included with general admission to the Center

Coordinated by
North Jersey Section of the American Chemical Society



For further information, go to www.njacs.org
or email mitachaki@gmail.com; monicasekharan@njacs.org



ChemExpo 2016
Saturday, October 22, 2016
Call for Help

On Saturday October 22nd, the North Jersey Section of ACS will be holding its 22nd ChemExpo in celebration of National Chemistry Week at Liberty Science Center, Jersey City, New Jersey. Please help us make a difference!

The theme for this year is "Solving Mysteries Through Chemistry". Join us to make this event a fun-filled day of hands-on science chemistry activities that will engage visitors in exploring the positive impacts of chemistry. The activities should be geared for 6 to 12 year olds. Check out the National Chemistry Week web page at <http://portal.acs.org> to get some ideas for hands-on activities that you might be interested to present.

To minimize duplication of the presentations, please email us the list of activities that you/your team would like to present preferably by September 15th, 2016. Individuals contacting us first with their idea(s) will be given priority. We would like the students to be able to redo these experiments at home and/or at school so please be thorough in your presentation and explanations.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Monica Sekharan - monicasekharan@njacs.org

Mita Chaki - mitachaki@gmail.com

Please fill out the following form and return to Monica Sekharan at monicasekharan@njacs.org

Form: Call for Help

Count me in to volunteer at Liberty Science Center, Jersey City, New Jersey.

My name is:

I am volunteering to work on Saturday, Oct. 22nd (Check appropriate box)

- 10:00am-11:30 am,
 11:30 am - 2:00 pm,
 10:00am-2:00pm

I can be reached at: (work phone number)

My complete address is:

I am an employee at:

The activities at my table will be:

I will need additional tables: 2 3 4 5 6 (Circle)

I will be bringing handouts on activities: Yes No (Circle)

I will be joined at my table by the following volunteers.

Last Name:	First Name	Institution:	Contact Information (email)



ChemExpo 2016
Saturday, October 22, 2016
Call for Sponsorship

On Saturday October 22nd, the North Jersey Section of ACS will be holding its 22nd ChemExpo in celebration of NCW (National Chemistry Week) at Liberty Science Center, Newark, New Jersey. Please help us make a difference! The theme for this year is "Solving Mysteries Through Chemistry".

We are looking forward to financial support to help cover many of the expenses associated with the Section's NCW activities. A donation of \$500.00 indicates Gold Sponsorship, a \$250.00 gift indicates Silver Sponsorship and a \$100.00 gift indicates a Bronze Sponsorship. We would appreciate it if you would forward this information to the appropriate representatives within your company.

Checks should be made out to:

"NJACS" (The North Jersey Section of American Chemical Society) with a memo of "NCW".

Sent to:

Jacqueline Erickson
 33 Ronald Road
 Lake Hiawatha, NJ, 07034-1121.

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Mita Chaki and Monica Sekharan

Please fill out the information below and return the form to Bobbi Gorman at rosellerams@yahoo.com.

Sponsorship Form

My company would like to support these efforts at the _____ (indicate gold, silver, or bronze) level.

Name of the Company:

The following company/individuals are willing to help defray the costs of these events:

An acknowledgement letter for this contribution should be sent to:
 Name:

Email:

Full address:

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 Pippen Way, Morristown, NJ 07960

Due Date

Completed Applications must be post-marked 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 the NY Section Home Page at 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. John B. Sharkey, at johnbsharkey@me.com.

Grants Available

ACS LEADERSHIP DEVELOPMENT SYSTEM® GRANTS AVAILABLE TO LOCAL SECTIONS

The Committee on Local Section Activities (LSAC) is pleased to offer a limited number of grants to local sections that wish to host ACS Leadership Development System® courses in 2016-2017. This partnership between the ACS Leadership Advisory Board (LAB) and LSAC will allow your local section to provide a tangible member benefit to your local section members at no charge.

Grant Details:

A limited number of grants (up to \$3,000) are available to local sections that wish to host an ACS Leadership Development System® course in the fall of 2016 through 2017.

Upon grant approval, eligible local sections will be awarded \$1,800 to cover the registration fees (\$150pp) for the first 12 participants who register for the course;

Additional grant monies up to \$1,200 will be awarded to local sections who wish to offer additional scholarships.

Local sections may choose to host any of the following courses:

- Engaging Colleagues in Dialogue
- Engaging and Motivating Volunteers
- Fostering Innovation
- Coaching and Feedback
- Collaborating Across Boundaries
- Leading Without Authority
- Developing Communication Strategies
- Strategic Planning*

*Local Sections may choose to sponsor a 1.5 day Strategic Planning Retreat for the Executive Committee and up to 7 other members. Please note that the \$3000 will not cover the entire cost of the Retreat but it will help to offset the \$4500 fee which covers the costs and facilitator fees associated with the Retreat. In addition, the local section should budget for meals, snacks and any meeting room expenses that may be incurred.

Local sections must submit a grant application **by July 15, 2016**. Grant funds are limited and will be awarded on a first-come, first-served basis. Dates to host a leadership course are subject to facilitator availability.

All courses are facilitated by an ACS member who has been trained and certified to teach the course. As each facilitator is a volunteer, flexibility is requested in accommodating your proposed workshop date. ACS will provide all course materials, and a computer and projector if needed. Local sections are responsible for reserving a meeting room (with a screen and flipcharts), providing a light snack for attendees, and assisting with course promotion on their website, mailings and meeting announcements. ACS is available to provide limited support in promoting the course to your members.

ACS Leadership Development System® courses provide participants with an opportunity to learn essential skills that will strengthen their competitive edge in today's global economy. For more information

about these courses and course scholarships, please visit www.acs.org/leaderdevelopment or contact leaders@acs.org.

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 2 Science is seeking volunteers to aid in our Virtual Lab program. We have a series of elementary, middle, and high school experiments that we will be running in various schools across New Jersey. Members are especially needed to help with the North Jersey section's IPG funded project to bring hands-on science to South Jersey. We need professionals to help in the classroom with the students. It's great fun, a wonderful way to give back, and only requires a few hours of your time. Opportunities begin in November. For more information, contact Fran Nelson, frannelson@students2science.org and visit our website at Students2Science.org

See also Call for Help, page 24.

National

IMPORTANT INFORMATION REGARDING CANDIDATES FOR THE FALL 2016 ACS NATIONAL ELECTION

Department of Chemistry and Chemical Biology, Northeastern University, Boston, MA

Candidates for Directors-at-Large, 2017-2019

Joseph A. Heppert, Associate Vice
Chancellor for Research, University of
Kansas, Lawrence, KS

(continued on page 28)

NATIONAL

(continued from page 27)

Kristin M. Omberg, Group Leader,
Chemical & Biological Signature
Science Group, Pacific Northwest
National Laboratory, Richland, WA

Dorothy J. Phillips, Retired, Waters
Corporation, Milford, MA

Kathleen M. Schulz, President,
Business Results, Inc., Albuquerque,
NM

Candidates for District II Director, 2017-2019

George M. Bodner, Arthur E. Kelly
Distinguished Professor of Chemistry,
Purdue University, West Lafayette, IN

Christina C. Bodurow, Senior Director,
Medicines Development Unit External
Sourcing, Eli Lilly and Company,
Indianapolis, IN

Candidates for District IV Director, 2017-2019

Rigoberto Hernandez, School of
Chemistry and Biochemistry, Georgia
Institute of Technology, Atlanta, GA

Larry K. Krannich, Executive Director,
Alabama Academy of Science,
Birmingham, AL

According to ACS Bylaw V, additional candidates may be nominated by petition until July 15th, 2016. We will notify you again after the July 15th deadline to confirm the final slate of candidates that will appear on the fall ballot, if there are any changes.

I want to take this opportunity to remind you that there should be no articles published covering their campaign or viewpoints or speaking engagements offered between now and the end of the election period in October, unless the opportunities are provided to all candidates for that office equally. This ban does not include N&E approved publication of scientific research articles, coverage of truly noteworthy scientific news events, or certain types of activities related to official governance duties. Extenuating circumstances will be reviewed by N&E on a case-by-case basis. To be safe, please con-

tact me if you plan to refer to these candidates in any way in your publication. If you receive any phone calls or correspondence from a candidate requesting assistance or information pertaining to the election, please refer them to me, Frank Walworth, the assistant staff liaison, or Liz Beckham.

With this formal announcement of candidates to all editors and officers, N&E specifically wants to alert you to ACS Bylaw V, Sec. 13, a and b, which states:

Sec. 13, a. "No funds of the SOCIETY, its Local Sections, or its Divisions shall be used to support or to oppose the candidacy of an individual or group of individuals. No facilities, such as office space, equipment, or supplies; official letterhead; or mailing permit of the SOCIETY, its Local Sections, or its Divisions shall be used to support or oppose the candidacy of an individual or group of individuals, except as provided in this Section."

Sec. 13, b. "If space in a SOCIETY, Local Section, or Division publication, other than a paid advertisement at commercial rates, be used to support or to oppose the candidacy of an individual, space must be made available simultaneously and equally to support or to oppose the candidacy of every other candidate for the same office."

We are providing this information as a reminder so that no undue publicity will be given to a candidate running for national office and to assure that the "Fair Election Procedures" are adhered to according to ACS Bylaws.

If you want to invite candidates to submit a statement for potential publication in a newsletter or bulletin, we can provide you with a 300 word generic statement. The 300 word statement is optional but most candidates have provided us with one in the past. Please contact Liz Beckham (202-872-4594) if you want to request these statements.

If you invite or provide a speaking forum for one candidate, you must invite ALL candidates for that position to speak at the same time to be in compliance with the ACS "Fair Election Procedures." The candidate(s) can then choose whether or not to participate.

N&E requests that a copy of your invitation to any candidate, with regards to an article for publication from them or mentioning them, or an invitation to speak or appear at a Local Section Meeting be provided to me for filing in their election folder for reference. You can send it via e-mail to me at the above address, and also copy Liz Beckham, who works closely with all candidates, at L_beckham@acs.org.

With this memo the committee has made an official attempt to inform all local section editors, officers and others affiliated with ACS publications about the "Fair Election Procedures."

N&E has published an updated set of "ACS Campaign Guidelines and Frequently Asked Questions" which can be accessed at <http://www.acs.org/elections> (click on "Campaign Guidelines"). Please make sure you are familiar with these guidelines and note under the heading "Process & Activities" that candidates were able to begin their election campaigning on March 24 (one week after the ACS Spring National Meeting). If you have any questions or concerns regarding candidates or national election procedures, please contact me (202) 872-4461 or Frank (202) 872-6070.

The Committee on Nominations and Elections sincerely appreciates your cooperation.

Liz Beckham

Office of the Secretary and General Counsel

Staff Support, Committee on Nominations and Elections

American Chemical Society

1155 16th St. NW, Washington, DC 20036

T 202-872-4594

F 202-872-6338

ACS CAREER NAVIGATOR



It has never been more important than in today's global economy for chemists and related professionals to develop and maintain a range of skills to succeed and thrive in their profession. To assist in this increasingly competitive landscape, the American Chemical Society has crafted the ACS Career Navigator™, your competitive advantage in a global workforce.

This exciting tool is your home for career services, leadership development, in-person and online professional education and market intelligence resources. The ACS Career Navigator™ offers comprehensive and easily identified tools that allow you to achieve your career goals by landing a new job, finding a new career path or comparing your salary and viewing current trends in the field to make more informed decisions. Take advantage of opportunities to refresh skills and branch into new areas of emerging science and advanced applications with in-person and online training courses or develop leadership skills that can be immediately applied in school or on the job. In short, whatever your career goals, the ACS Career Navigator™ is here to help you achieve and exceed them.

It's never too late to jump start your career. Read the full listing of ACS Career Navigator™ products, programs, and services online at <http://www.acs.org/ebooklet/careernav> or visit www.acs.org/careernavigator to gain a competitive advantage.

INCREASING AWARD NOMINATIONS

From: ACS Committee on Grants & Awards

ACS Diversity and Inclusion Advisory Board (D&IAB)

ACS Women Chemist Committee (WCC)

Re: Increasing Successful Awards Nominations from Underrepresented Groups

The Problem

"From 2012-2016, only 13% of the nominees and only 16% of the recipients for ACS national awards were women" (C&EN, February 22, 2016).

"The photos published of the 2016 ACS national awards winners in C&EN further highlight the lack of racial diversity in the awards." (C&EN, February 1, 2016).

The Solutions

"[The Committee on Minority Affairs, WCC, D&IAB] and G&A, no matter how diligently they work, cannot achieve the outcomes we desire without the help of all ACS members and the chemistry and chemical engineering community at large. (C&EN, February 1, 2016).

"The focus on achieving diversity and inclusion is not something relegated to a committee, office, or ACS program. It is something that has been integrated into every facet of the Society's activities." (C&EN, February 22, 2016).

The Opportunities

Join other ACS groups in a series of activities:

- Discuss the ways that current and potential activities could increase the number and quality of nominations for ACS National Awards from underrepresented groups.
- Participate in a working breakfast session to be held on Tuesday, August 23rd from 9:15 am to 10:45 am during the ACS National Meeting in Philadelphia (Philadelphia Marriott, Franklin Room 8). Panelists will present current data, share their experiences with the nomination and selection process, and provide insight into how to increase the number of nominations of excellent candidates from underrepresented groups and improve nomina-

tions that are submitted to make them more competitive.

- Invest efforts and resources in activities that increase the number and quality of nominations for ACS National Awards from underrepresented groups.

Please e-mail wcc@acs.org for more information; to RSVP for the working breakfast session; or to send updates on activities that your group is undertaking to "Help Diversify ACS National Awards".

References:

Bodner, G. M.; Kuck, V. J. "Help Diversify ACS National Awards." *Chemical & Engineering News*, February 22, 2016.

Jacobs, M. "ACS's Work is not Done." *Chemical & Engineering News*, February 1, 2016.

Others

Workrite Uniform Company Announces Top Laboratory Hazards

Flame-resistant clothing company encourages workplace safety by highlighting top hazards for laboratory workers

OXNARD, Calif. (June 30, 2016) — More often than not, accidents in laboratories can be prevented and, with the proper precautions and by wearing the right personal protective equipment (PPE), severe injuries can often be avoided or minimized. To generate awareness and offer safeguards for laboratory workers, Workrite Uniform Company presents the following "Top 5" list of laboratory hazards.

TOP 5 LABORATORY HAZARDS

1. FIRE/EXPLOSIONS

In a laboratory, all chemicals and liquids should be treated as if they are as potent as gasoline. Vapors can travel long distances and may ignite if they reach a flame or spark. Be sure to keep a fire extinguisher on hand and ensure each individual in the laboratory knows its exact location to prevent fires from spreading. The appropriate PPE, like a flame-resistant (FR) lab coat, should also be worn.

2. THERMAL AND CHEMICAL BURNS

Many chemicals, both organic and inorganic, may be flammable and/or corrosive to the skin and eyes. It is important to exercise caution with chemicals to prevent spills and splashes. Additionally, the correct PPE should always be worn, such as lab coats that offer both FR properties and chemical-splash protection

(CP).

3. SKIN ABSORPTION OF CHEMICALS

Keeping chemicals away from direct contact with the skin is fundamental in laboratory safety. Even if chemicals are not corrosive, exposure can cause allergic reactions or other problems if absorbed by the skin. Remember that gloves may be permeable to certain chemical reagents — even without visible deterioration — so be sure to carefully trade out any gloves that have come into contact with such chemicals for a new pair immediately. Never touch your face or eyes until your hands are clean of all chemicals or solvents. As an extra precaution, wear a CP lab coat to prevent chemicals from wicking through fabric to the wearer.

4. INHALATION OF TOXIC FUMES

Many common solvents are extremely toxic if inhaled, and inhalation of certain chemicals can severely irritate membranes in the eyes, nose, throat and lungs. To reduce these risks, never evaporate excess solvents. Laboratory workers should also maintain a safe distance when pouring chemicals and make sure there is proper ventilation in the lab.

5. CUTS TO THE SKIN

Cuts to the skin are one of the most common types of laboratory accidents. In severe cases, nerves and tendons may even be severed. Often, these injuries occur as a result of attempting to force a cork or rubber stopper into a piece of glass tubing, thermometer or distilling flask. To prevent this accident from occurring, workers should make a proper-sized hole, lubricate the cork or stopper, and use gentle pressure with rotation on the glass portion.

Information for the Workrite Uniform Top 5 list came from various sources — the most notable being Dartmouth College's Chemistry Lab Safety Rules. To help combat laboratory hazards, it is important to perform risk assessments, keep work areas clean, conduct regular inspections and ensure that employees wear the appropriate PPE. For more information on safety hazards and the role of FR clothing in workplace safety, visit www.frinformation.com.

ABOUT WORKRITE UNIFORM COMPANY

Workrite Uniform Company is a business-to-business (B2B) affiliate of Williamson-Dickie Manufacturing Company ("Dickies"), a global workwear brand. Founded in 1973, Workrite Uniform has delivered high-quality flame-resistant (FR) workwear for more than 40 years. An ISO 9001:2008-certified company, the B2B manufacturer is solely focused on FR clothing for industries throughout North America. Today, Workrite Uniform offers four top-quality brands — Workrite® FR, Dickies® FR, Walls® FR, and Workrite® FR Fire Service — and the sub-brand Workrite® FR/CPTM. For more informa-

tion on Workrite Uniform, visit www.workrite.com.



ASTM International Relaunches World's Leading Laboratory Directory

W. CONSHOHOCKEN, Pa., July 6, 2016—ASTM International has fully redesigned its International Laboratory Directory, the only directory in the world dedicated to helping manufacturers find the right labs to test their products.

Independent laboratories throughout the world rely on thousands of standards and test methods, including many developed by ASTM International. By working with these labs, manufacturers can help ensure that their products meet key safety and performance criteria, which in turn sends a strong message to existing and potential customers.

The new International Laboratory Directory:

- lists standards and test methods that each laboratory can perform;
- provides locations of laboratories in countries throughout the world;
- allows labs to improve search ranking by purchasing keywords that highlight industry-specific strengths and services;
- allows manufacturers and other potential partners to compare laboratories; and,
- offers groupings for multiple laboratories that are part of one company.

Notably, the lab directory is the top-ranked result in search engines including Google. Annual fees start at \$150. Go here for more information and contact sales@astm.org or +1.610.832.9585.

Helping our world work better

Over 12,000 ASTM standards operate globally. Defined and set by us, they improve the lives of millions every day. Combined with our innovative business services, they enhance performance and help everyone have confidence in the things they buy and use — from the toy in a child's hand to the aircraft overhead.

Working across borders, disciplines, and industries we harness the expertise of over 30,000 members to create consensus and improve performance in manufacturing and materials, products and processes, systems and services. Understanding commercial needs and consumer priorities, we touch every part of everyday life: helping our world work better.

Contact: Anna Spektor, tel +1.610.832.9756; aspektor@astm.org

Media Inquiries: Dan Bergels, tel +1.610.832.9602; dbergels@astm.org

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There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.

- Companies for laboratory and management positions
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- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- www.mboservices.net
- <http://newyorkacs.org/jobs.html>
- <http://njacs.org/jobs.html>

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