

THE Indicator

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Dr. Kenrick M. Lewis Westchester Chemical Society Distinguished Scientist 2015



See article on page 5.

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THIS MONTH IN CHEMICAL HISTORY

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

In a recent column I discussed the acetone crisis of World War I drawing on a recent book: "The Chemists' War 1914 – 1918" by Michael Freemantle published by The Royal Society of Chemistry in the U.K. this year (2015). That war, called in the past The Great War (though it was dwarfed by World War II in geographic scope and casualty numbers), saw the advent of gas warfare on the Western Front in 1915 with the release of chlorine by Germany against French troops in Northern France. The allies were quick to respond, also initially with chlorine, but in this column I will discuss the introduction of a fearsome new class of chemical warfare agents by both sides: mustard gas.

There are different types of mustard gas. This column will focus on sulfur mustard, bis-(2-chloroethyl)sulfide. This compound was probably first synthesized in 1822 by a young French chemist, Despretz, by reaction between ethylene and sulfur dichloride. He noted the oily nature of the product and its bad smell. The German production method for the sulfur mustard used in World War I was based on a process devised by Viktor Meyer and modified by Hans Thacher Clarke which included the production of 2-chloroethanol from ethylene and hypochlorite, treating that compound with sodium sulfide, and generating sulfur mustard from the product of that reaction by treatment with concentrated hydrochloric acid. Both Meyer and Clarke noted that sulfur mustard is toxic and inflicts wounds on the skin that are slow to heal. An accidental spill of sulfur mustard by Clarke while working in Fischer's laboratory in Berlin in 1915 incapacitated Clarke for two months and this prompted an investigation into its use in chemical warfare. The Bayer company began to produce sulfur mustard, and it was used in battle by the Germans in July 1917.

The Allied response was prompt, and the chemical team was led by William Jackson Pope, a distinguished British organic chemist. Pope considered sulfur mustard a 'humane' war gas because while it incapacitated troops for long periods, it rarely killed. The compound (which has a slight odor of mustard oil due to impurities – hence the name mustard gas) is a vesicant raising severe blisters on the skin, damage to the lungs if inhaled, and causing temporary or permanent blindness if it gets into the eyes. Pope and co-worker Charles Gibson modified a reaction first studied in by Frederick Guthrie in 1860. This involved bubbling ethylene through sulfur chlorides. Pope and Guthrie obtained good yields of sulfur mustard by passing ethylene through sulfur monochloride at 50 -70oC. French chemists later improved the yield by running the reaction at 30 – 40oC.

The calculus of killing is disturbing. In a book on chemical warfare Augustin Prentiss concluded that sulfur mustard is "by far the most effective" of war gases. This is primarily because it is persistent, unlike chlorine or phosgene. Prentiss calculated that there was one casualty per 60 pounds of sulfur mustard and one casualty per 500 pounds of high explosive.

There is an American connection to this story. James Conant was recruited for the U.S. Chemical Warfare Service in 1917 and was charged with the production of sulfur mustard. His team used the French chemists' version of the Pope and Gibson reaction, and by mid-1918 were producing about 10 tons of sulfur mustard a day. Since the Armistice was signed in November 1918, only a fraction of the American product was used in battle. Altogether the Allies used around 3000 tons of sulfur mustard in World War I, and the Germans around 7000 tons.

While the sulfur mustards have not found uses outside of battle, their analogs the nitrogen mustards, chloroalkylamines, were among the first compounds successfully used in chemotherapy. But that is a story for another month.

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

June Calendar

NEW YORK SECTION

Thursday, June 4, 2015

Chemical Marketing & Economics Group
See page 10.

Friday, June 5, 2015

New York Section Board Meeting
See page 10.

also

Tuesday, July 28, 2015

Biochemical Topical Group
See pages 10-11.

Early October, Early November, Early December 2015, and Early February 2016

Westchester Chemical Society
See pages 11-13.

NORTH JERSEY SECTION

Sunday-Friday, June 7-12, 2015

Drew University Res-Med Seminar
See page 16.

Monday, June 8, 2015

Careers in Transition
See page 15.

Tuesday, June 9, 2015

Mass Spectrometry Discussion Group
See page 16.

Saturday, June 20, 2015

Special Symposium: Enriching Lives Through Smart Chemistry
See pages 16-17.

also

September 1, 2015, and October 20, 2015

Mass Spectrometry Discussion Group
See page 16.

Thursday, October 15, 2015

Drug Metabolism Discussion Group
See page 17.

Saturday, October 17, 2015

Chem Expo and National Chemistry Week
See page 18.

***The Indicator* is posted to the web on the 15th of the previous month at www.TheIndicator.org**

Deadline for items to be included in the September 2015 issue of *The Indicator* is **July 20, 2015**



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WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD

On Thursday, April 30, 2015, at Pace University in Pleasantville, NY, the Westchester Chemical Society presented its Distinguished Scientist Award to Kenrick M. Lewis, Ph.D. "In recognition of his contributions to the catalysis of reactions of silicon and silicon compounds, especially slurry-phase direct reactions of silicon with nanosized copper catalysts." Dr. Lewis has worked on a broad range of silicone products and has contributed to the understanding of how silicones perform in numerous applications such as consumer and industrial detergents, personal care products, rubber and plastic fabrication, polyurethane foams, inks and coatings, textiles and food preparation, among others. He has been a major contributor to our understanding of the chemistry of silicon, silanes and silicones, studying both synthesis and application, particularly of functionalized silanes, silane coupling agents, silicone surfactants and silicone polymers. He has worked for about forty years in Tarrytown, NY and has been given numerous awards and honors. He is a member of several professional organizations, including ACS, and has done much professional volunteer work, including co-editing *Catalyzed Direct Reactions of Silicon* (Elsevier, 1993). He has nearly one hundred publications, presentations and patents. He is a Corporate Research Fellow with Momentive Performance Materials in Tarrytown, NY. He joined the Linde Research Dept. of Union Carbide in January, 1977 and has been at the Tarrytown Technical Center since then. His research interests encompass both process and materials chemistry. In process chemistry, he has contributed to the fundamental understanding and technological exploitation of the catalytic transformations of silicon and silicon compounds, including direct syntheses of silanes from silicon, hydrosilylation, hydrogenolysis of disilanes, redistribution/disproportionation reactions of organosilicon compounds, the use of transition metal complexes of silylenes, and silylene insertion reactions. He has investigated new methods of producing electronic and solar grade silicon, surface-chemical studies (XPS, AUGER, TPD) of intermediates in heterogeneous catalysis, and the use of nanosized materials (particularly copper and copper compounds) in catalysis. His materials chemistry interests are focused on structure-property relationships among siloxane-polyether copolymers, especially silicone surfactants for stabilizing polyurethane foams, surface modification of polysiloxanes, and addition-cure polysiloxanes and their use in medical, dental, electronic and urethane foam applications.

Dr. Lewis was born in Grenada, West Indies, and completed his secondary education there. His degrees are from the University of Alberta (Edmonton), BS (first class honors in chemistry), and from the University of Massachusetts (Amherst), Ph.D. (Inorganic Chemistry). Dr. Lewis has been the recipient of many scholarships, prizes and awards from his studentship to the present time. These include the Latimer and Langmuir Awards at General Electric Co., Caribbean Icon of Science and Technology from the Caribbean Council for Science and Technology, and a Key Contributor to the 1999 Kirkpatrick Award for Innovation in the Direct Synthesis of Trimethoxysilane.

Dr. Lewis gave an interesting awards lecture entitled "Silicon, Silanes, Silicones and You: Ordinary and Extraordinary Applications of Silicon and Silicon-Containing Compounds". Worldwide sales of silanes, silicones and other organosilicon compounds exceed US\$ 5 billion annually and the industry continues to grow. Dr. Lewis' talk addressed where, how and by whom these products are used. He noted that although silicon-containing compounds are present in, or are used to process, a wide variety of industrial, medical and consumer products that satisfy basic human needs in a modern society, there is little awareness of their ubiquity and utility even within the chemical community. In his talk, Dr. Lewis emphasized the applications and the fundamental principles or properties, which enable the use of silicon compounds in their many applications.

In addition to the Distinguished Scientist Award, the Westchester Chemical Society also presented sixteen undergraduate Student Awards (our most ever). We thank Dr. Peter Corfield of our board and Fordham University for his considerable efforts in the selection of the student awardees. The awardees, their colleges and faculty advisors are:

(continued on page 23)

THE 2015 WILLIAM H. NICHOLS MEDAL AWARD DINNER AND SYMPOSIUM

The 2015 William H. Nichols Medal Award was presented to Professor Gabor A. Somorjai of the University of California, Berkeley on April 17 at an award dinner at the Crown Plaza Hotel, White Plains, NY. Dr. Somorjai received the Nichols gold medal for "His Outstanding Contribution to the Elucidation of Novel Highly Selective Nanocatalysis." In attendance were 250 local industrial chemists, students and faculty members. Thirty five colleges and universities of the New York Section were represented.

The William H. Nichols Distinguished Symposium, that preceded the award dinner, was titled "Molecular Surface Science and its Applications: Nanomaterials, the Surface Chemical Bond, Biointerfaces and Catalysis." It featured internationally known speakers: Professors Omar M. Yaghi (University of California, Berkeley), Paul Cremer (Pennsylvania State University), Steven L. Bernasek (Princeton University) and Professor Somorjai who presented the Award Lecture titled "The Genesis and Integration of Heterogeneous, Homogeneous and Enzyme Catalysis on the Nanoscale." Dr. Alison G. Hyslop, 2015 Chair-elect of the New York Section, led the symposium - welcoming and introducing each speaker. The attendees enjoyed the high quality of the symposium and the networking atmosphere of the award banquet.

At the Nichols Medal Award Dinner, Dr. Paris Svoronos, 2015 Chair of the ACS New York Section, welcomed the guests, introduced the dais and related the History of the Nichols Medal. The Section was very honored to have Dr. Diane Grob Schmidt, President of the ACS, offer greetings and congratulations from the American Chemical Society. Dr. Kenneth Eisenhal of Columbia University introduced his good friend and colleague by relating the interesting story of Dr. Somorjai's journey to America and his subsequent graduate education at Berkeley. Dr. Svoronos then awarded the gold medal, a bronze replica, and \$5000 to Dr. Somorjai, who was accompanied by his wife, Judith. At the conclusion of the ceremony many students eagerly met with the medalist for conversation and photographs.

Members of the Nichols family also participated in this special event, along with many former chairs of the New York Section and members of the Section's Board of Directors.

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

At the Award Dinner, a special announcement was made regarding a student award program that was initiated this year through the generosity of the Nichols Foundation. The William H. Nichols Fellowship Award will support, annually, two undergraduate students for summer science research in a New York academic institution. The selected winners will be announced each year at the banquet and they will later present their research results at the following year's Undergraduate Research Symposium. This year's recipients are: Sarah Avidan of Brooklyn College – CUNY who will be mentored by Professor Ryan Murelli, Diego Prado of Hofstra University who will be working under Professor Scott Lefurgy and Natalie Thulin of Barnard College who will be conducting her research under Professor Edward Guo of Columbia University.



*(Photos pages 6-9 courtesy of
Andrey Moiseyenko)*

Prof. Gabor Somorjai accepting the William H. Nichols Medal Award from Prof. Paris Svoronos.



An audience of 250 enjoyed the four lectures of an excellent symposium.



Nichols Speakers and ACS Officers at the close of the symposium: Professors Omar Yaghi, Kenneth Eisenthal, New York ACS Chair Paris Svoronos, ACS President Diane Grob Schmidt, Medalist Gabor Somorjai, Steven Bernasek, Paul Cremer and New York ACS Chair-elect Alison Hyslop.



Symposium Speakers with Medalist Gabor Somorjai and ACS President Diane Grob Schmidt.



At the reception, The Medalist with the New York Section Officers, the ACS President and the Nichols Family.



Prof. Gabor Somorjai presenting his award lecture and fielding questions from the attendees.



Drs. Paris Svoronos (NY ACS 2015 Chair), Soraya Svoronos, Medalist Gabor Somorjai and Judith Somorjai.



Drs. Alison Hyslop (NY ACS 2015 Chair-elect), Medalist Gabor Somorjai, Judith Somorjai and Peter de Rege.



ACS President Diane Grob Schmidt brought heartfelt greetings and congratulations from the American Chemical Society.



Dr. Kenneth Eisenthal introduced his colleague and friend Dr. Somorjai with an interesting story about the Medalist's life.



Prof. and Medalist Gabor Somorjai met with students from Queensborough Community College, CUNY for some nice photos.



College students enjoying the award dinner. The Nichols Foundation sponsors two students and one faculty member from each college in the ACS New York Section.



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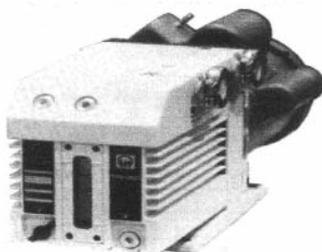
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New York Meetings

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NEW YORK SECTION BOARD MEETING DATES FOR 2015

The dates for the Board Meetings of the ACS New York Section for 2015 have been selected and approved. The meetings are open to all – everybody is welcome. All non-board members who would like to attend any (or all) 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 2015 Board Meetings will be held on the following dates at St. John's University, 8000 Utopia Parkway, Jamaica, NY. Dr. Paris Svoronos 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.

Friday, June 5, 2015

Friday September 18, 2015

Friday November 20, 2015

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

<http://www.NewYorkACS.org>.



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.

CHEMICAL MARKETING & ECONOMICS GROUP

Specialty Chemicals: A New Paradigm for Consumers, Materials, & Life Science

Speaker: James Mish
President
Consumer Specialties
Ashland, Inc.

Date: Thursday, June 4, 2015

Time: 11:00 AM - 2:00 PM

Place: The Penn Club
30W 44th Street
New York, NY

Website: www.cmeacs.org

Distribution : Accelerating Value and Growth in the next Decade

Speaker: Erik Fyrwald
CEO, Univar USA

Date: Wednesday, September 9, 2015

Time: 11:00 AM - 2:00 PM

Place: The Penn Club
30W 44th Street
New York, NY



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

Leveraging Big Data and Predictive Knowledge to Fight Disease

Organizers: Walter Jessen, PhD
Covance Inc.

Robert Martone
St. Jude Children's Research
Hospital

Sonya Dougal, PhD
New York Academy of Sciences

Speakers: Niven R. Narain, MD
Berg Pharma

Marc D. Chioda, PharmD
Pfizer Inc,

Joshua Denny, MD, MS, FACMI
Vanderbilt University

Leonard James, MD, PhD
Pfizer Inc.

Iya Khalil, PhD
GNS Healthcare

Jason H. Moore, PhD
Dartmouth University

Nicholas Tatonetti, PhD
Columbia University Medical
Center

Craig P. Webb, PhD
NuMedii, Inc.

Chunhua Weng, PhD
Columbia University

In the era of precision medicine, analyses of large volumes of data are key to developing targeted and effective therapeutics. This symposium explores how big data and predictive knowledge are used to guide drug development and clinical trials.

Date: Tuesday, July 28, 2015

Time: 8:30 AM – 4:30 PM
(reception to follow)

Place: The New York Academy of Sciences
7 World Trade Center
250 Greenwich Street – 40th Floor
New York, NY 10007

Cost: This event is has reduced-rate registration for ACS and NYAS members, at \$30 or \$15 (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 \$85 (corporate), \$65 (non-profit or academic) or \$45 (students and post-docs).

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

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



WESTCHESTER CHEMICAL SOCIETY

FUTURE MEETINGS

Special Seminar – “How Your Grandmother’s Diet May Have Changed Your Life”

Speaker: Hailey Clancy, PhD
Lieutenant Colonel, US Army
Assistant Professor
Department of Chemistry
and Life Science
United States Military Academy
West Point, NY

Abstract will be supplied in a later issue.

Lieutenant Colonel Hailey Clancy graduated from Westminster College in Fulton, Missouri with a double major in Biology and Spanish and was commissioned into the US Army in 1992. While on active duty with the US Army, she earned a MS Degree in Environmental Toxicology from Cornell University where she developed a biosensor to detect the bacterium that causes Anthrax. In 2012 she earned a PhD in Molecular Toxicology and Carcinogenesis from New York University, where she conducted research on the effects of human exposure to nickel and its role in lung cancer. LTC Clancy’s military assignments include service as a Transportation and Logistics officer in Germany (Nürnberg, Kaiserslautern, Wiesbaden, and Baumholder), Bosnia-Herzegovina, Iraq (Balad, Diyala, Baghdad), and Fort Drum, NY. She is currently assigned as an Assistant Professor in the Department of Chemistry and Life Science at West Point, NY, where she teaches General Chemistry and Biology. Her military awards include the Bronze Star (with oak leaf cluster), Meritorious Service Medal (with two oak leaf clusters), Joint Service Commendation Medal, Army Commendation Medal (with oak leaf cluster), Army Achievement Medal (with oak leaf cluster) and the Meritorious Unit Citation.

Tentative Date: Early October, 2015

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

For more information, contact:

Paul Dillon (914) 393-6940

E-Mail PaulWDillon2@hotmail.com

Or:

Anthony Durante (718) 289-5542 or 5569

E-Mail: anthony.durante@bcc.cuny.edu

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,

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WESTCHESTER CHEMICAL SOCIETY

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and the 914-606-6900 phone line.

Special Seminar – “Hydrogen Bonding in Redox and Nanoparticle Construction”

Speaker: Marc A. Walters, PhD
Department of Chemistry
New York University
New York, NY

Abstract and CV will be supplied in a later issue.

Tentative Date: Early November 2015

Times, Place, Cost and Further Information:
See information under Early October meeting on page 11.

Special Seminar – “Making Green by Being Green – Life Cycle Assessment”

Speaker: Joseph C. Bush, PhD
Associate Director
The Center for Sustainable

Energy

The City University of New York
Bronx Community College

The concept of Sustainability has its roots in many ancient cultures but over the last century was largely swept under the rug by consumer-led free market forces. However, intelligent investors never let go of the idea – they are always on the lookout for sustainable growth. As the energy and resource demands from developing nations continue to grow, and commodity prices fluctuate, the concept of sustainability is increasingly being integrated in all levels of corporate function. In this talk I will present examples of a process called *Life Cycle Assessment*, which seeks to quantify sustainability and is being incorporated in the decision making

process of businesses of all sizes.

In 2005 Dr. Bush obtained his B.S in Chemistry from the Worcester Polytechnic Institute where he studied the synthesis, purification and structural analysis of organic polydentate, metal chelating ligand molecules to bind divalent metal ions, creating low-density crystal structures. He went on to obtain his Ph.D. in Physical Chemistry in 2010 from Brown University where he studied Rydberg Fingerprint Spectroscopy using femtosecond pump-probe photoelectron spectroscopy on Rydberg states of biomolecular model systems. He continued at Brown as a postdoctoral research associate in the Physics Department where he designed and built a prototype system interfacing custom chip-based nano-pore materials with third party radio frequency mass filters for label-free, bio-polymer sequencing. For this work, he was the project lead for CAD design, nano-structure fabrication and optimization, computer-based simulation, and experimental implementation. During this time, he also was a consultant to Brown's Technology Venture Office, which markets intellectual property for external licensing. Since 2013, Dr. Bush has been the associate director for Bronx Community College's Center for Sustainable Energy. The Center builds bridges between academic departments, industry partners, and government agencies.

Tentative Date: Early December, 2015

Times, Place, Cost and Further Information:
See information under Early October meeting on page 11.

Special Seminar – “Isolation and Characterization of Hyaluronan from Tissue Samples”

Speaker: Han Yuan, PhD
Polytechnic School of
Engineering of New York
University
Brooklyn, NY



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Abstract and CV will be supplied in a later issue.

Tentative Date: Early February, 2016

Times, Place, Cost and Further Information: *See information under Early October meeting on page 11.*



2015 WILLIAM H. NICHOLS FELLOWSHIP AWARDEES

The New York Local Section of the American Chemical Society is excited to announce the inauguration of a summer research opportunity for undergraduates, the William H. Nichols Fellowship. The Nichols Fellowship is open to all college students majoring in chemistry (broadly defined) who perform research over the Summer before graduation at an institution in the NY Local Section geographic area. Each Nichols Fellow receives a stipend of \$5,000 to support them as they perform their research and is expected to present their findings at the 2016 Undergraduate Research Symposium. In addition, they will be honored at the 2016 William H. Nichols Award Banquet. The 2015 Nichols Fellowship Awardees are, as follows:

Sarah Avidan, Brooklyn College – CUNY
Bayer-Villager Oxidation Synthesis of 7-Membered Bicyclic Substitution Bicyclos Chlorine Substitution Synthesis on 7-membered bicyclos with Prof. Ryan Murelli

Diego Prado, Hofstra University
Engineering octopine dehydrogenase for the production of chiral secondary amines with Prof. Scott Lefurgy

Natalie Thulin, Barnard College
Calcium Ion Fingerprint in Osteocytes with Prof. Edward Guo (Columbia University)

The New York Local Section wishes each of the William H. Nichols Fellows the best in their research endeavors as it looks forward to hosting this summer research program for many years to come.



WESTCHESTER CHEMICAL SOCIETY

On Wednesday, April 22, 2015, Dr. Rolande Hodel, co-chair of the Westchester Chemical Society and President and Founder of the non-profit AIDSfreeAFRICA, spoke on "Lessons from Ebola: Ebola Teaches Malaria" at the Hudson Valley Science Café. For those unfamiliar with them, a Science Café is a periodically held gathering in a Café, Pub or Restaurant, open to the public, with a short presentation of a topic followed by discussion. The essence of a Science Café is informality, with groups seated around tables with food and drink to encourage conversation. The café was held at La Casa Vicina in New Windsor, NY. The attendees filled four busy tables with a lively crowd of about 32 for an interesting discussion of a very timely and well-presented topic. The photo is of several attendees, Dr. Hodel (next to the right) and Dr. Toby Rossman, chair of the Hudson Valley Science Café, Professor of Environmental Medicine at NYU-Langone School of Medicine (part time), and litigation Consultant in Chemical Toxicology (far right).



Three attendees at the April 22, 2015 Hudson Valley Science Café, Dr. Rolande Hodel and Dr. Toby Rossman.

(Photo courtesy of Rolande Hodel)

EARTH DAY CELEBRATION

NY Section's Chemists Celebrate Earth Day's "Walk the Brooklyn Bridge" Event

It was a beautiful and sunny day on Saturday, April 25, 2015 – perfect for students and faculty, members of the New York Section of the ACS, and friends and families to come together to celebrate the 4th Annual Chemists Celebrate Earth Day's "Walk the Brooklyn Bridge" event!

<http://www.newyorkacs.org/meetings/EarthDay/CCED.php>

Local colleges and companies represented at the event included Pace University, New York University, The College of Mount St. Vincent, The City University of New York, St. John's University, St. Joseph's College, Fordham University, Queens College, Kingsborough Community College, Columbia University, MIT, University of Massachusetts Lowell, University of Delhi, American Crystallographic Association, Pfizer, Weill Cornell, TCS English School, Dept. of Environmental Protection, West Essex High School, Suffolk County Community College, Ledoux and Company, Fort Hamilton High School, John Jay College, Richmond Hill High School, Hunter College, Albert Einstein College of Medicine, Stony Brook University, Baruch College, Brooklyn College, Merck & Co., Queensborough Community College, and Long Island University. There were more than 200 people in attendance who gathered at Pace University (the host institution) at 10 am to begin the celebration. The morning started with a welcome by Dr. JaimeLee Rizzo, Earth Day Coordinator, Professor of Chemistry, and 2012 Chair of

the ACS-NY Section followed by opening remarks by Dr. Neil Jespersen, St. John's University, representing the ACS-NY Section. The keynote speaker, Prof. Spiro Alexandratos, Hunter College, CUNY delivered an enthusiastic, eye-opening, and informative talk entitled, "99 is not 100: A Call to Action".

Each participant was provided with breakfast, snacks, and earth day gifts (recycled Earth Day rubber duckies and reusable water bottles). Everyone was given a helium-filled Earth Day balloon to display while we all made our trek across the iconic Brooklyn Bridge. We had an Earth Day Banner which was carried to lead the way for our parade route from Pace University across the bridge.

The event was co-sponsored by the Chemistry Club of Pace University, Tribeta Honor Society of Pace University, New York University's Chemistry Club, the Chemistry Club of St. John's University, and the Chemistry Club of the College of Mount Saint Vincent.



North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

There will be no North Jersey Executive Meeting in June.



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, June 8, 2015

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 billherits@earthlink.net.

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

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Membership surveys show that you want more articles in our newsletter. If you tell our advertisers that you saw their ad here, they will provide more financial support and this will allow us to add more articles.

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 4 & 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.

Learn more about
the North Jersey
Section at
www.NJACS.org

RES MED: RESIDENTIAL SCHOOL ON MEDICINAL CHEMISTRY AND BIOLOGY IN DRUG DISCOVERY

The ResMed School offers an intensive week long graduate-level course organized to provide an accelerated program for medicinal chemists, biologists and other industrial and academic scientists who wish to broaden their knowledge of drug discovery and development. The aim of the school is to concentrate on the fundamentals that are useful in drug discovery spanning initial target assay evaluation through clinical development. Several case histories of recent successful drug development programs will also be presented. The five-day program consists of lectures, seminars and case histories.

Date: Sunday-Friday, June 7-12, 2015

Place: Drew University
Madison, NJ

For more information and application forms visit our website, www.drew.edu/resmed, email resmed@drew.edu, phone (973) 408-3787 or fax (973) 408-3504.



MASS SPECTROMETRY DISCUSSION GROUP

Launches 26th Year with Expanded Goals

The Mass Spec Discussion Group is "off and running" for our 26th year. In spite of our winter weather, we met for our monthly dinner gatherings in both February and March with excellent presentations for the 100 or so members in attendance. We continue to very much appreciate the corporate support that allows our group to meet free-of charge. This year as well, Shimadzu Scientific has kindly opened its facility to the NJMSDG's executive committee for the monthly evening planning meetings.

There are several new goals set for our topical group this year. We are seeking to increase the membership and attendance from Colleges and Universities in our area that have strong interest in mass spectrometry. We are actively recruiting and hope to report growth in faculty and student participation as our eyes look for future leaders of the NJMSDG. Also, as we have done in the past, we are budgeted to award two Student Travel awards of \$500 each to ASMS. This is of course good for a student's resume as

well as an advisor's budget.

It is also well worth noting that our group has launched a Linked-In page, with the expert help of James Shen of BMS. Social media is new to our group, but we are hoping to have active discussion arena that will serve both the science and networking interests of our group.

Lastly, it is not too early to mark your schedule regarding our meeting dates through 2015. Further information can be found at <http://www.njacs.org/mass-spectrometry-topical-group-meetings>

Dates: Tuesday, June 9, 2015
Tuesday, October 20, 2015

Times: Social 5:30 PM
Dinner 6:15 PM
Presentations 7:00 PM

Place: Holiday Inn
195 Davidson Avenue
Somerset, NJ

NJMSDG Symposium and Vendor Show.

Date: Tuesday, September 1, 2015

Further details and plans regarding the September 1 NJMSDG Symposium and Vendor Show will be posted next month, but we do want to announce, with great excitement, the addition of a Poster Session! We trust this will give added opportunity for students, faculty, vendors, and members to share their science and further enhance discussions and networking.

Kathleen Anderson
NJMSDG Director of Communications



SPECIAL SYMPOSIUM

Enriching Lives through Smart Chemistry

Speakers: Senior R&D leaders from industry, distinguished educators from universities as well as influential entrepreneurs

Vendor Show: A vendor exhibition will be held in parallel to podium presentations. Vendors are welcome to participate.

Career Opportunities: Several companies will post job openings and collect resumes at the symposium. In addition, a career consultant from ACS will provide career advices on-site.

Date: Saturday, June 20, 2015
Time: 8:30AM – 4 PM,
Place: Busch Campus Center
 Rutgers University
 604 Bartholomew Road
 Piscataway, NJ
Cost: Free and open to public.
 Complimentary breakfast and
 lunch will be provided.

Registration: <http://tristatecacs.org> for
 registration, additional information and
 updates

Contact:
 Baoqing Ma, mabqing@yahoo.com,
 Lijuan Wang, lijuanwang20@gmail.com,
 and Mark Zhen, markyzen@yahoo.com



NoJ DRUG METABOLISM DISCUSSION GROUP

Fall Meeting

Chaired by: Lauren Aleksunes
 Rutgers University

The North Jersey Drug Metabolism
 Discussion Group's Fall Meeting will be
 centered upon "**Strategies to Predict and
 Reduce Drug Interactions and
 Toxicities**". Five dynamic speakers from
 industry and academia have been selected
 to present their work.

Identifying Strategies to Prevent Anti- retroviral Drug-induced Toxicities

Speaker: Namandje Bumpus
 Johns Hopkins School of
 Medicine

Targeted Pharmacological Control of the Microbiome to Improve Human Health

Speaker: Matthew Redinbo
 University of North Carolina
 at Chapel Hill

Toxicity Prediction and Development of Pharmacogenetic Co-Diagnostics Using Diversity Outbred Mice

Speaker: Alison Harrill
 University of Arkansas
 for Medical Sciences

Renal Drug Interactions: Progress and Challenges in Making Predictions in a Complex System

Speaker: Adrian Ray
 Gilead Sciences

Cynomolgus Monkey as a Potential Model to Assess Drug Interactions involving Hepatic OATP Transporters: In Vitro, In Vivo, and In Vitro-to-In Vivo Extrapolation

Speaker: Hong Shen
 Bristol-Myers Squibb

Date: Thursday, October 15, 2015

Time: 8:00 AM - 3:45 PM

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

<http://palacesomersetpark.com>

Cost: Pre-registration is \$125 and \$150
 at the door. Students and post-
 docs are charged \$10, and faculty
 are charged \$50. Registration is
 free for unemployed.

For more information about the meeting or
 to learn more about the Discussion Group,
 please check out the Group's website
[http://www.njacs.org/topical-groups/
 drug-metabolism](http://www.njacs.org/topical-groups/drug-metabolism) or email [aleksunes@
 eohsi.rutgers.edu](mailto:aleksunes@eohsi.rutgers.edu).

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ChemExpo 2015
at Liberty Science Center



Saturday, October 17th, 2015
10 a.m. - 2 p.m.



"CHEMISTRY COLORS OUR WORLD"

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**

 **ACS**
Chemistry for Life™

For further information go to www.njsecs.org
or email miltachaki@gmail.com; monicaaakheram@njsecs.org



67TH ANNUAL UNDERGRADUATE RESEARCH CONFERENCE

The Sixty-seventh Annual Undergraduate Research Conference was held on Friday April 24, 2015, at Fairleigh Dickinson University campus in the in the Library Orangerie in Madison, NJ. Eight undergraduate students from four local universities (Monmouth University, Fairleigh Dickinson University, Drew University, and Seton Hall University) presented their research to an audience of students, faculty

and scientists from the North Jersey area. The three judges, Dr. Alan Cooper, a retired medicinal chemist from Merck/Schering Plough, Dr. Bill Suits, a Career Consultant at CIT Chemjobs and Dr. Matthew Mongelli, an Assistant Professor at Kean University, had the near impossible decision of choosing their top three undergraduate student presentations. Each presenter represented their institution skillfully and gave some insight into the research that is being accomplished at undergraduate institutions in the North Jersey Section of the ACS.

First Place and the Jean Asell Duranna Award were given to Mr. Trevor Van Eeuwen, a senior at Fairleigh Dickinson University, whose presentation was titled, "Homology Modeling and Functional Analysis of the Mitotic Checkpoint Complex." His research was conducted under the direction of Dr. Gloria Anderle. Mr. Van Eeuwen's research was presented with a degree of skill not often seen by an undergraduate student with a touch of well-placed humor.

Second place was awarded to Ms. Lissette Londono, who is a senior at Drew University working with Dr. Ronald J. Doll on the topic, "The Synthesis and Chiral Separation of Positive Allosteric Modulators of Glutamic Acid Receptors for the Treatment of Parkinson's Disease." Ms. Londono successfully discussed molecules that have the potential to be used to treat patients that have Parkinson's Disease.

The third place award was given to Ms. Rylee McBride, a senior at Monmouth University. Her presentation was titled, "Conformational Dynamics of a Molecular Diazo Photoswitch." Her research was conducted under the direction of Dr. Dmytro Kosenkov. Ms. McBride confidently present-



Student winners with their mentors (from left) Dr. Ronald Doll, Lissette Londono, Trevor Van Eeuwen, Dr. Gloria Anderle and Rylee McBride.

(Photos courtesy of Matthew Mongelli)

ed her research on the use of light to change the conformation of cis/trans diazo bonds.

The award certificates will be formally presented to the top three student presenters at

the North Jersey Section's Annual Awards Dinner held on Wednesday, May 20, 2015 in Lenfell Hall on the Fairleigh Dickinson University campus in Madison, NJ.



Students, their mentors and judges (front left), Dr. Ronald Doll, Dr. Gloria Anderle, Mr. Bill Suits, Lissette Londono, Dr. Alan Cooper, Rylee McBride, Trevor Van Eeuwen, Dr. Elena Colicelli, Eliana Callejas, Dr. Edward Salaski, Erica Portero, Joshua Hsu, Leanna Mocniak, Jermaine Dunbar, Dr. Matthew Mongelli.



Undergraduate Student Conference winners (from left) Lissette Londono (Drew 2nd), Trevor Van Eeuwen (FDU 1st) and Rylee McBride (Monmouth 3rd).

National

19th ANNUAL GREEN CHEMISTRY & ENGINEERING CONFERENCE (GC&E)

Hosted by the ACS Green Chemistry Institute®

As the longest running green chemistry conference in the United States, GC&E invites scientists, decision-makers, students, and advocates coming together, compare findings, and discuss the science of the future. Register today to explore green chemistry and engineering advancements over three days of programming featuring more than

30 technical sessions, poster sessions, a green exhibit hall, and keynote lectures. The program sessions include themes around catalysis, designing safer chemicals, education, green engineering, pharmaceuticals, sustainable products, feedstocks, functional and biobased materials, tools and metrics, energy, synthetic transformations, and biochemistry. A student workshop will be held on Monday, July 13, 2015 at the ACS headquarters and there will be many opportunities to volunteer throughout the conference!

Date: Monday-Wednesday,
July 14-16, 2015

Place: Bethesda, MD

Early registration is open until May 29, 2015! For more information visit gcande.org.

Call for Sponsorship



ChemExpo 2015 Saturday, October 17, 2015 Call for Sponsorship

On Saturday October 17th, the North Jersey Section of ACS will be holding its 21st 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 "Chemistry Colors Our World".

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

Call for Nominations

2015 NICHOLS FOUNDATION HIGH SCHOOL CHEMISTRY TEACHER AWARD

**Nomination Form for the
American Chemical Society's
New York Section, Inc.
2015 Nichols Foundation
High School Chemistry Teacher Award**

Name of Nominee: _____

School: _____

Address: _____

Name of Nominator: _____

Title: _____

Address: _____

Phone: _____

FAX: _____

E-mail Address: _____

Please mail the completed nomination form
by June 5, 2015 to
Mr. Stephen Radice
Chair, Nichols Foundation Chemistry
Teacher Award Jury
214 Wolverine Street
Staten Island, New York 10306



NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2015

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

A nomination letter with supporting data should be emailed to the 2015 OSA Committee Chair, Dr. James Canary at james.canary@nyu.edu. **Nominations will be accepted until June 30, 2015.**

The nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2015 will be presented at the New York Section's Section-wide Conference in January 2016.

For more information about the award along with a list of former award recipients, please visit the ACS New York Section's website at http://www.newyorkacs.org/awards_nyacs.php

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.

(continued on page 22)

CALL FOR APPLICATIONS FREDDIE AND ADA BROWN AWARD

(continued from page 21)

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 Volunteers

MARM 2016

The New York Section will be hosting MARM 2016, June 9-12, 2016 at the College of Mount Saint Vincent, Riverdale, NY 10471. The section will be celebrating its 125th Anniversary during its event. The theme has yet to be determined. The General Chairs for this meeting are Dr. Pamela Kerrigan and Dr. Daniel Amarante from the College of Mount Saint Vincent's Division of Natural Sciences. To volunteer in planning and/or for further information, please contact them at the following emails:

Pamela.kerrigan@mountsaintvincent.edu

or

Daniel.amarante@mountsaintvincent.edu



ChemExpo 2015 Saturday, October 17, 2015 Call for Help

On Saturday October 17th, the North Jersey Section of ACS will be holding its 21st 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 "Chemistry Colors Our World". 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, 2015. 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.

Mita Chaki - mitachaki@gmail.com

Monica Sekharan - monicasekharan@njacs.org

Please fill out the following form and return to Claire Miller at cmiller07940@yahoo.com

WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD

(continued from page 5)

Bronx Community College	Luisa M Rodriguez	Faculty: Anthony Durante
College of Mount St. Vincent	Lauren Tate	Faculty: Andrea Minei
College of New Rochelle	Maris Mendez	Faculty: Elvira Longordo
Concordia College – Bronxville	Delaney Stuhr	Faculty: Karen Bucher
Cooper Union	Kyle Lam	Faculty: Robert Toppe
Fordham University	Sarah K Hurley	Faculty: Peter Corfield
Iona College	Alessandra Armetta	Faculty: Sunghee Lee
Manhattan College	Douglas Huntington	Faculty: John Regan
Manhattanville College	Polin Petkova	Faculty: Darlene Gandolfi
Mercy College	Kenia Castellanos	Faculty: Carl Embola
New York University	Salaheldein Elkattawy	Faculty: Marc Walters
Pace University, Pleasantville	Cesar Ramirez	Faculty: Ellen Weiser
Purchase College, SUNY	Kimberly Seegopaul	Faculty: Elizabeth Middleton
Ramapo College of NJ	Sydney Kauffman	Faculty: Sarah Bolton
Rockland Community College	Johanna Svensson	Faculty: Adessa Butler
Westchester Community College	Johanna Marker	Faculty: Jody Reifenberg

Because of publication deadlines, and the timing of the awards presentations, details about the student awardees, and more photographs from the meeting will be published in the next issue of *The Indicator*.

The awards presentations and Dr. Lewis' lecture were followed by a delicious dinner, and socializing with each other. There were approximately 80 attendees, including a large contingent from the Dr. Lewis' employer, Momentive Performance Materials and predecessor companies back through the Union Carbide Silicones Division, making for a very enthusiastic and enjoyable evening.

The awards dinner was hosted by the Department of Chemistry & Physical Sciences of Dyson College of Arts and Sciences, Pace University (with special thanks to Dr. Ellen Weiser). We gratefully acknowledge financial support for this event from Momentive Performance Materials, Inc. and the Chemistry Departments at Bronx Community College, Fordham University, Iona College, Manhattan College, and Mercy College.

A photo of the Distinguished Scientist is on this issue's cover. Below is a photo of the Westchester Chemical Society co-chairs (Paul Dillon, at left, and Rolande Hodel, fifth from right), education director (Peter Corfield, at right), and the student awardees.



The Student Awardees with the WCS Co-Chairs and Education Director.

(Photo courtesy of Paul Dillon)



BE IT RESOLVED That the Senior Chemists Committee of the American Chemical Society extend our sympathy and condolences to the Family of Maureen G. Chan, our esteemed colleague of many years, on her recent passing. We wish to recognize the many contributions Maureen made to the American Chemical Society and this committee over many years of dedicated service. We all valued her insight and wisdom, as well as her willingness to engage and enthusiastically accomplish the work needed to further a wide array of Society objectives. We will fondly remember her.

Sincerely,

George E. Heinze, Chair

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and
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to All Our 2015
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