Celebrate National Chemistry Week Oct. 12-18

“Chemistry Colors Our World”

See NY articles on pages 7 and 25 and NoJ articles on pages 17, 19-23.
THIS MONTH IN CHEMICAL HISTORY

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

My recent columns have been inspired by 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 involvement of chemists (and other scientists) in unprecedented numbers in forwarding the war effort on both sides of the conflict. In this final column on these subjects I look at a rather unexpected essential chemical of war and of peace: I refer to “potash”. In the early nineteenth century a number of great chemists including Humphrey Davy and Justus von Liebig turned their attention to, and published influential books about, the chemistry of agriculture. They showed that essential plant nutrients included nitrogen, phosphorus, and potassium. Artificial fertilizers became the key to improved crop yields up to the present day.

In the early twentieth century the primary source of minerals containing useful amounts of potassium was Germany. The Stassfurt salt mines (near Magdeburg) yielded brines with substantial quantities of potassium chloride, and other minerals rich in potassium. These deposits were first exploited around 1860 and by the early twentieth century Germany had become the potassium supplier to the world’s farmers producing some 7 million tons of “potash” annually. A word about nomenclature. Technically the term potash means potassium carbonate but in the agricultural industry it is applied to all sources of potassium minerals. To add to the confusion potassium contents of fertilizers were and still are expressed in terms of potassium oxide. Potash had many other applications besides agriculture. It was important in the manufacture of liquid soaps, glass, explosives, and a host of other more minor applications.

As the entry of the United States into World War I became closer it was clear that domestic sources of potash would have to be developed. In 1913 the US imported a quarter of a million tons of potash from Germany. As the British blockade of German ports strengthened during the war the price of potash increased ten-fold from some $10 a ton to $100 a ton. The impact on farming, in particular on cotton growing in the Southern States, was dramatic. This spurred the search for US sources of potassium minerals. The salt lakes of Nebraska turned out to be rich in both sodium and potassium chlorides. By 1917 production of potassium salts from that region rose from 1000 tons a year to over 30,000 tons a year from some ten potash plants. Prices were still high, at over $150 a ton, but demand still rose. In 1916 production at Searles Lake in California began. Deposits there included sodium carbonate, borax, and potassium carbonate, all minerals useful in the war effort. By 1918 this source was producing 1800 tons of potassium salts a month. In Utah a mineral related to potassium alum, called alunite, was found near Marysvale and was worked to produce quite pure potassium sulfate in ton quantities by 1915. Another source of potash was kelp. The marine plants were harvested in San Diego, California, and were fermented to give a solution rich in potassium salts. About 10% of US potassium production came from kelp by war’s end.

By 1918 all these sources provided over 50,000 tons a year of potassium compounds but the end of the war led consumers to expect that German sources would become available again, and that prices would drop. The potash industry in the US collapsed. In 1918 over 120 plants were making potassium minerals. By 1921 only about 20 were still in business. The US Congress passed a number of tariff bills in the early 1920s but potash was not on the protected lists. US production fell to less than half of its peak value, and US agriculture turned once again to cheaper imports for most of its potash.
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The monthly newsletter of the New York & North Jersey Sections of the American Chemical Society. Published jointly by the two sections.
October Calendar

NEW YORK SECTION

Thursday, October 1, 2015
Long Island Subsection
See page 5.

Thursday, October 1, 2015
Chemical Marketing & Economics Group
See page 5.

Tuesday, October 6, 2015
New York Nanoscience Discussion Group
See page 6.

Wednesday, October 14, 2015
Westchester Chemical Society
See pages 6-7.

Friday, October 16, 2015
High School Teachers Topical Group
See page 7.

Sunday, October 18, 2015
NY National Chemistry Week Celebration
See pages 7 and 25.

Thursday, October 22, 2015
Hudson-Bergen Chemical Society
See page 8.

Tuesday, October 27, 2015
Biochemical Topical Group
See pages 8-9.

also

Thursday, November 5, 2015
Long Island Subsection
See pages 9-10.

Tuesdays, November 10, 2015; February 2 and April 19, 2016
New York Nanoscience Discussion Group
See page 10.

Wednesday, November 11, 2015;
Wednesday, December 9, 2015; and
Early February 2016
Westchester Chemical Society
See pages 10-11.

NORTH JERSEY SECTION

Monday, October 12, 2015
Careers in Transition
See page 15.

Thursday, October 15, 2015
Drug Metabolism Discussion Group
See page 16.

Saturday, October 17, 2015
Chem Expo and National Chemistry Week
See pages 17 and 19-23.

Monday, October 19, 2015
North Jersey Executive Meeting
See page 15.

Tuesday, October 20, 2015
Mass Spectrometry Discussion Group
See page 17.

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

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

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New York Meetings

www.newyorkacs.org

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, November 20, 2015


LONG ISLAND SUBSECTION

Palladium-Catalyzed Carbocyclization Reactions Involving Carbene Insertions

Speaker: Sean Devine, PhD
Department of Chemistry
LIU Post

Transition metal-catalyzed cross coupling has revolutionized the way that chemists assemble carbon–carbon (C–C) bonds. These reactions typically involve palladium-catalyzed bond formation between vinyl or aryl halides and organometallic coupling reagents. Our laboratory is currently interested in developing Pd-catalyzed coupling reactions involving vinyl iodides and N-tosylhydrazones to assemble η3-allyl ligands. Intramolecular trapping with stabilized carbon nucleophiles leads to the generation of vinylcyclopentanes with newly formed sp3 centers. Migratory insertion of carbene ligands derived from N-tosylhydrazones are the key step in these carbenylative carbocyclization reactions.

Date: Thursday, October 1, 2015
Times: Social – 5:30 PM
Seminar – 6:00 PM
Place: CUNY Queensborough Community College
Science Building, S-112
Directions: http://www.qcc.cuny.edu/about/driving.html

CHEMICAL MARKETING & ECONOMICS GROUP

Bayer CropScience: What is Next?

Speaker: Iain Kelly, PhD
Research Fellow and Director Regulatory Policy and Issue Management

Date: Thursday, October 1, 2015
Time: 11:00 AM - 2:00 PM
Place: The Penn Club
30 West 44th Street
New York, NY

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NEW YORK NANOSCIENCE DISCUSSION GROUP

2015-2016 Sessions

Hosted by the New York University Department of Chemistry

Speakers to be announced.

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology, chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

Dates: Tuesday, October 6, 2015
Times: Refreshments at 7:00 PM Science at 7:30 PM
Place: NYU Silver Center
31 Washington Place (between Washington Square East and Greene Street)
Room 1003, 10th floor
New York, NY

For more information, contact:
James Canary (james.canary@nyu.edu)

Topical Group History:
http://www.nyu.edu/projects/nanoscience

WESTCHESTER CHEMICAL SOCIETY

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

Deoxyribonucleic acid (DNA) is the major biomolecule that carries genetic information in all forms of life. Epigenetics refers to chemical modifications of DNA and associated proteins that are inherited without a change in the DNA sequence of an organism. For example, identical twins have the same linear sequence of DNA, but over time the epigenetic modifications to their DNA can result in a significant difference in their overall health and fitness. Epigenetic modifications control which genes are expressed in a given cell or organism and as such have a major impact on the cell or organism. This talk will introduce the essentials of epigenetic modifications and their impact on the affected organisms.

 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.

Date: Wednesday, October 14, 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, and the (914) 606-6900 phone line.

**HIGH SCHOOL TEACHERS TOPICAL GROUP**

**A Ray of Light in a Sea of Dark Matter**

**Speaker:** Charles R. Keeton II

Rutgers University

<keeton@physics.rutgers.edu>

What’s in the dark? That question has been asked by generations of children and cosmologists alike. The answer, in our universe, turns out to be surprising and rich. The space between stars is filled with an exotic substance called “dark matter” that exerts gravity but does not emit, absorb, or reflect light. The space between galaxies is rife with “dark energy” that creates a sort of cosmic anti-gravity causing the expansion of the universe to accelerate. Together, dark matter and dark energy account for 95% of the content of the universe. This talk presents an accessible description of how gravity affects light and how astronomers use it to prove dark matter. Gravitational lensing is now a key part of the international quest to understand the invisible substance that surrounds us, penetrates us, and binds the universe together.

**Date:** Friday, October 16, 2015

**Time:** Social and Dinner — 5:45 PM

**Place:** Social and Dinner — TBD

**Time:** Meeting — 7:15 PM

**Place:** Meeting — New York University Silver Center Room 207

32 Waverly Place (South-east corner Washington Sq. East)

New York, NY 10003

Security at NYU requires that you show a picture ID to enter the building.

In case of unexpected severe weather, call John Roeder, (212) 497-6500, between 9:00 AM and 2:00 PM to verify that meeting is still on; (516) 385-4698 for other info.

Note: On street parking is free after 6:00 PM.

**NY - NATIONAL CHEMISTRY WEEK**

**Help the New York Section of the American Chemical Society to Celebrate National Chemistry Week 2015 with the Theme**

“Chemistry Colors Our World”

Over 20 tables of hands-on experiments, activities, demonstrations, and giveaways. Special photo opportunities with Dr. Met, the official mascot of the New York Mets baseball team. FREE admission to NYSCI between 10-11 AM.

Last year, activities were presented by 240 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 participating in or sponsoring an activity table at the event, please contact Dr. Ping Furlan (furlanp@usmma.edu), Dr. Zhaohua Dai (zdai@pace.edu), or Mrs. Erin Wasserman (illustrated poem contest coordinator, ewasserman602z@gmail.com).

Volunteers’ parking at NYSCI is FREE.

**Date:** Sunday, October 18, 2015

**Times:** 11:00 AM – 4:00 PM

**Place:** New York Hall of Science (NYSCI)

Flushing, Queens


You can also find additional information about NCW on the American Chemical Society’s website at [http://www.acs.org/content/acs/en/education/outreach/ncw/about.html](http://www.acs.org/content/acs/en/education/outreach/ncw/about.html).
Transition Metal Catalyzed Functionalization of Alkynes and its Applications

Speaker: Dr. Yalan Xing
William Paterson University of New Jersey

Regioselective functionalization of carbon-carbon multiple bonds is of prime importance for the synthesis of variety of organic compounds including bio-active molecules. The first row nontoxic and inexpensive transition metal iron (III) was used to catalyze the formation of α,α-dihalodimethyl ketals from terminal alkynes with excellent yield and regioselectivity. It was discovered that alkynes can be selectively functionalized to α,α-dihaloketones or α-haloketones by employing different solvents and workup procedures. The power of the diverse functionalization of alkynes is that it opens a door between alkyne chemistry and carbonyl chemistry, and these multicomponent, tandem approaches allow efficient access to structurally interesting and bioactive agents. By studying the structure-activity relationship, the most potent small organic molecules with drug properties could be accessed rapidly.

Dr. Yalan Xing joined the Chemistry Department of William Paterson University as an Assistant Professor in Fall 2014 after completing her postdoctoral training in Professor Yoshito Kishi’s group at Harvard University. Before that, she obtained her Ph.D. at West Virginia University in organic chemistry under the guidance of Professor George O’Doherty. Her graduate and postdoctoral research focused on studies of complex bioactive natural products (their total synthesis, structure elucidation, and use in disease diagnosis). At William Paterson University, she conducts research in developing novel synthetic methodologies to provide unique access to bioactive small molecule agents and ultimately address the increasing need for them in biomedical research, particularly cancer research. Dr. Xing is especially interested in inventing the next generation synthetic methodologies which display improved efficiencies and are atom economical. She plans to use these methods to prepare natural products, pharmaceutical agents and their analogs, and conduct the medicinal chemistry SAR study.

Date: Thursday, October 22, 2015
Times: Refreshments 5:00 PM
Lecture 5:30 PM
Place: Dickinson Hall Room 4468
Fairleigh Dickinson University
Teaneck, NJ
Cost: Free.

Reservations required: Dr. Mihaela Leonida
(201) 692-2338, e-mail: mleonida@fdu.edu, by October 19, 2015.

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

Phenotypic and Biomarker-Based Drug Discovery

Organizers: Michael Foley, PhD
Tri-Institutional Therapeutics Discovery Institute
Ralph Garippa, PhD
Memorial Sloan Kettering Cancer Center
David Mark, PhD
Hoffmann-La Roche
Lorenz Mayr, PhD
Astra Zeneca
John Moffat, PhD
Genentech
Marco Prunotto, PhD
Hoffmann-La Roche
Sonya Dougal, PhD
The New York Academy of Sciences

Speakers: Andras J. Bauer, PhD, PharmD
Boehringer Ingelheim USA
Alex Huang, PhD
Genentech
Michael Jackson, PhD
Sanford-Burnham Medical Research Institute
Bryan Laffitte, PhD
Genomics Institute of the Novartis Research Foundation
This symposium aims to deepen the level of scientific understanding behind phenotypic drug discovery and to foster the exchange of ideas between industry and academic research scientists. In this symposium, we will explore current strategies enabling phenotypic drug discovery to become more mainstream. We will discuss the ability of stem cell-based and -omics technologies to create highly relevant disease model systems in vitro. We will also discuss successful approaches to effectively identify specific targets to the effectors discovered using this strategy. Specific case studies will highlight notable successes in this approach.

Date: Tuesday, October 27, 2015
Time: 8:00 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 $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/PhenotypicDrug.

To become a Member of the Academy, visit www.nyas.org/benefits.
NEW YORK NANOSCIENCE DISCUSSION GROUP

2015-2016 Sessions

Hosted by the New York University
Department of Chemistry

Speakers to be announced.

The NYNDG is an ACS Topical Group that meets in the New York University Department of Chemistry. Sessions feature three 30-minute presentations on nanoscience, one each with strong orientation in biology, chemistry, and physics/applied mathematics. Presentations will be focused on discussion of recent work, although speakers will place the work in a context understandable to a broad audience.

Mark Your Calendars:

Dates: Tuesday, November 10, 2015
      Tuesday, February 2, 2016
      Tuesday, April 19, 2016

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

Place: NYU Silver Center
  31 Washington Place
  (between Washington Square East and Greene Street)
  Room 1003, 10th floor
  New York, NY

For more information, contact:
James Canary (james.canary@nyu.edu)

Topical Group History:
http://www.nyu.edu/projects/nanoscience

WESTCHESTER CHEMICAL SOCIETY

FUTURE MEETINGS

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

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

Early nanoparticles for MRI angiography were constructed of silver or gold nanoparticles that supported active functional groups on their surface. Today nanoparticles for MRI and diverse biomedical applications and materials are constructed largely of non-metallic inorganic matrices, organic polymers, and gels. This talk will describe the formation and characterization of nanocapsules and gels in reverse micelles that form with the use of hydrogen bonding cationic surfactants that are paired with anionic monomers. The monomers are polymerized to form hyperbranched nanopolymers within the reverse micelle compartment. The resulting hyperbranched structures are uniform and stable under ambient conditions. They are cost effective to produce and suitable for numerous applications where the aim is the transport, slow release, or protection of molecules in the capsule or gel interior. This class of nanoparticle is synthetically accessible to non-specialists and can therefore serve to expand nanoscience in unique new directions.

Marc A. Walters is a graduate of City College (City University of New York). He earned his PhD in Chemistry from Princeton University and followed this with an NIH Postdoctoral Fellowship at the Massachusetts Institute of Technology. Since then he has been a professor in the Chemistry Department of New York University. He also did a one-year stint as an associate professor at the Université de Toulouse. He has been chair of the NY Section of ACS and currently chairs its Government Affairs Committee.

Date: Wednesday, November 11, 2015
Times, Place, Cost and Further Information: See information under October meeting on page 6.

****

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.

Date: Wednesday, December 9, 2015
Times, Place, Cost and Further Information: See information under October meeting on page 6.

****

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

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

Abstract and CV will be supplied in a later issue.

Tentative Date: Early February, 2016
Times, Place, Cost and Further Information: See information under October meeting on page 6.

** ROTARY CLUB OF JERSEY CITY **

“Service Above Self”

Honorees Selected for Legacy of Service Dinner

At its third Legacy of Service dinner this fall, the Jersey City Rotary Foundation will honor five people whom it believes exemplify Rotary’s Five Avenues of Service.

The honorees are:

Service to Rotary —
Dr. Howard Parish
Chairman, United Way of Hudson County

Service to Community —
Mary Jo Trusso-Sabbers
Jersey City Public Schools Administrator

Service to Vocations —
Dr. Eugene J. Cornacchia
President, Saint Peter’s University

Service to Youth —
Veronica Park
Chairwoman, Jersey City Youth Foundation

International Service —
Dr. Rolande R. Hodel
President, AIDSfreeAFRICA, Co-chair, Westchester Chemical Society

International Service — Dr. Rolande R. Hodel, President, AIDSfreeAFRICA (Photo courtesy of Rotary Club of Briarcliff Manor)
PROFESSOR STEPHEN L. BUCHWALD OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY IS THE WILLIAM H. NICHOLS MEDALIST FOR 2016

The New York Section is pleased to announce that the Nichols Award Jury has chosen Prof. Stephen L. Buchwald to be the William H. Nichols Medalist for 2016. Dr. Buchwald is being honored for “landmark contributions in organometallic chemistry, ligand design, and catalysis.”

The Nichols Distinguished Symposium and Medal Award Dinner will be held on Friday, March 4, 2016 at the Crowne Plaza Hotel, 66 Hale Avenue, White Plains, NY. The symposium is titled “The Development and Applications of Modern Methods in Organic Synthesis” and will feature four internationally known chemists. They are Dr. Joel Barrish of Bristol-Myers Squibb, Prof. Christina White of the University of Illinois, Prof. Timothy F. Jamison of the Massachusetts Institute of Technology, and Prof. Buchwald, Nichols Medalist. Prof. David MacMillan of Princeton University will introduce Prof. Buchwald at the award dinner.

Prof. Brian R. Gibney of Brooklyn College – The City University of New York, Chair-elect of the New York Section in 2016, will conduct the Distinguished Symposium, and Prof. Alison G. Hyslop of St. John’s University, Chair of the New York Section in 2016, will host the Medal Award Banquet and will present the Nichols Gold Medal Award to Prof. Buchwald at the dinner.

The entire program and reservation form will appear in the January, February and March Indicators and on the New York Section website at http://www.NewYorkACS.org

NEW YORK SECTION — MIDDLE ATLANTIC REGIONAL MEETING 2016

Chemistry: Past, Present, and Future
New York – A Chemistry State of Mind
Sponsored by: New York Section of the American Chemical Society

The 44th Middle Atlantic Regional Meeting (MARM 2016) of the American Chemical Society (ACS) will be hosted by the New York Section of the ACS and held at the College of Mount Saint Vincent in Riverdale New York from Thursday, June 9 to Sunday, June 12, 2016. MARM 2016 coincides with the 125th Anniversary of the American Chemical Society – NY Section.

For information regarding MARM 2016, please visit: http://www.marmacs.org/2016

- Questions regarding the event should be directed to the MARM 2016 General Co-Chairs:
  Pamela Kerrigan: pamela.kerrigan@mountsaintvincent.edu
  Daniel Amarante: daniel.amarante@mountsaintvincent.edu

- Interested speakers or individuals seeking to become Session Chairs should contact the MARM 2016 Program Co-Chairs:
  Paris Svoronos: PSvoronos@qcc.cuny.edu
  Sujun Wei: SWei@qcc.cuny.edu

For a current list of sessions visit: http://www.marmacs.org/2016/program.html

- Potential exhibitors and sponsors may contact the MARM 2016 Exhibits and Sponsorship Co-Chairs:
  Fitzgerald Bramwell: jerry@empirescience.com
  Ping Furlan: furlanp@usmma.edu
  Urszula Golebiowska: UGolebiowska@qcc.cuny.edu

Dates: Thursday-Sunday, June 9-12, 2016
Place: College of Mount Saint Vincent Riverdale, NY

See Call for Volunteers on page 18 and more extensive information on the next two pages.
# Sponsorship and Exhibit Opportunities

## Middle Atlantic Regional Meeting 2016

**New York—A Chemistry State of Mind**

## Sponsorship Categories

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* Events include but are not limited to workshops, lunches, social events, coffee breaks, and raffle. Full payment by April 15, 2016 to ensure full benefits.

## Exhibit Categories

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<tr>
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*Early Bird by March 1, 2016: full payment by April 15, 2016 to ensure full benefits; reduced price for combined registration with 2016 NEPM is available (please call for information).

## Advertisement

<table>
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*Full payment by April 15, 2016 to be included in the Program. Call for prizes for other options.
Dear Potential Exhibitor/Sponsor:

We invite your organization to take advantage of the many benefits of MARM 2016 as an Early Bird sponsor. There is the opportunity to connect with 30,000 chemists, biochemists and science educators in the Middle Atlantic Region (Washington DC to New York and of course all points in between). At MARM 2016, we anticipate 1,000 attendees from area industry, government labs, colleges and universities, public schools, and clinical labs. (Indeed, you are invited to review our program information at our website, http://www.marmacs.org/) MARM 2016 will run at the College of Mount Saint Vincent in Riverdale, NY on Thursday, June 9 through Sunday, June 12, 2016.

Your investment in the MARM 2016 Exposition as an Early Bird sponsor will maximize your interaction with attendees: either decision makers or prospective workforce employees. Among the incentives offered to Early Bird sponsors are:

- a special discount on exhibition space;
- targeted break (networking) sessions with industrial or academic decision makers;
- access to approved data bases for students; access to approved data bases for decision makers.

Here are some additional aspects of our plan that will assure the success and economy of your sponsorship:

- Early bird sponsors can rent exhibit space with or without power at a significantly reduced rate.
- Exhibit spaces available for Early Bird sponsors will be located in high traffic areas and include:
- Standard power (120 V) is available along the walls.
- 8 x 10-ft space including a 6-ft rectangular table, two chairs, and a trashcan.
- No cost wireless internet access available throughout the College of Mount Saint Vincent.
- Complimentary registration fees.
- BBQ, Raffle Draw, and sponsored Coffee Breaks that target potential workforce employees, or decision makers will be set up in the exhibit areas.
- Complimentary hot link posting to your company on the MARM 2016 website.

MARM conference registration will be set up in the exhibit areas. Exhibit areas are located near the technical sessions and with the poster sessions. Register before March 1, 2016 to take advantage of the Early Bird Rates, and register by April 15, 2016 to ensure full benefits. Exhibit space is limited and spots will be reserved on a first come basis. In addition to benefiting your organization, your participation will help make this the best MARM meeting ever!

If you have any questions, please feel free to contact us.

Sincerely,

Dr. Fitzgerald Bramwell  
859 338-7591  
jerry@empirescience.com

Dr. Urszula Golebiowska  
631 252-2106  
U.Golebiowska@qcce.cuny.edu

Dr. Ping Furlan  
516 725-5783  
furlanp@usmma.edu

Dr. Fitzgerald Bramwell  
859 338-7591  
jerry@empirescience.com

Dr. Urszula Golebiowska  
631 252-2106  
U.Golebiowska@qcce.cuny.edu

Dr. Ping Furlan  
516 725-5783  
furlanp@usmma.edu
North Jersey Meetings

http://www.njacs.org

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting and to become more involved in section activities.

Date: Monday, October 19, 2015
Times: Dinner 6:15 PM
Executive Meeting 7:00 PM
Place: Rutgers University
Center for Advanced Biotechnology and Medicine
679 Hoes Lane West
Piscataway, NJ

For reservations please call (732) 463-7271 or email chemphun@gmail.com prior to Wednesday, October 14, 2015.

Dinner cost is payable at the door; however, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.

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, October 12, 2015
New from now on is a second CIT meeting in East Windsor on the third Monday. Contact Bill for details.

Rutgers University Newark

Spring 2016 Graduate Courses
511 Advanced Organic Chemistry

Dr. Galoppini; Thursday 6:00-8:50 pm
529 Special Topics in Physical Chemistry:
Vibrational Spectroscopy and Imaging

Dr. Mendelsohn; Monday 6:00-8:50 pm
587 Topics in Biochemistry:
Application of Enzymes to Synthesis

Dr. Jordan; Tuesday 6:00-8:50 pm

To apply to our Masters or PhD program please see information at http://chemistry.rutgers.edu/grad/admissions-info.

Up to 2 graduate courses can be taken on a non-degree basis.
For more information, see

http://chemistry.rutgers.edu/grad/graduate-prog
or contact
Ms. McClendon at
mccclendon@andromeda.rutgers.edu

(Ph: 973-353-5173)
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.

NORTH JERSEY DRUG METABOLISH DISCUSSION GROUP

Fall Meeting: “Strategies to Predict and Reduce Drug Interactions and Toxicities”

Chair: Lauren Aleksunes
Rutgers University

Five dynamic speakers from industry and academia have been selected to present their work.

“Identifying Strategies to Prevent Antiretroviral 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 or email aleksunes@eohsi.rutgers.edu.
**ChemExpo 2015**

at Liberty Science Center

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

"Chemistry: Color 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

For further information go to www.njacs.org
or email info@njacs.org; info@njacs.org

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**MASS SPECTROMETRY DISCUSSION GROUP**

Date: 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

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**NMR TOPICAL GROUP — JOINT MEETING WITH PRINCETON ACS SECTION**

4th Annual NMR Symposium

Topics and speakers:

*Speaker:* Mei Hong
Institution: Massachusetts Institute of Technology
*Topic:* Solid-state NMR of Membrane Proteins

*Speaker:* Robert Powers
Institution: University of Nebraska - Lincoln
*Topic:* Metabolomics

*Speaker:* Hashim Al-Hashimi
Institution: Duke University
*Topic:* RNA and DNA Dynamics

---

More details and registration will be available in mid September: [http://www.njacs.org/nmr-spectroscopy-topical-group](http://www.njacs.org/nmr-spectroscopy-topical-group)

*We are very grateful to our sponsors:*

- Bristol-Myers Squibb
- Bruker BioSpin
- JEOL
- Dr. Luciano Müller
- Cambridge Isotope Laboratories
- Sigma-Aldrich/Isotec
- Wilmad-LabGlass
- New Era Enterprises
- Suraj Manrao Science Fund
- Mestrelab Research
- ACD/Labs
- Magritek
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 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
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
### National Chemistry Week (NCW) 2015
"Chemistry Colors Our World"

### Illustrated Poem Contest Entry Form

Please fill out this form, print, and attach to the back of the poems. All fields are required. Incomplete forms will invalidate the entry. The receipt deadline for the North Jersey Section Contest is Friday, OCTOBER 23, 2015.

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<td>9th-12th</td>
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### FOR LOCAL SECTION USE ONLY

<table>
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<tr>
<td>Coordinator Email</td>
<td><a href="mailto:rosellerams@yahoo.com">rosellerams@yahoo.com</a></td>
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</table>
North Jersey NCW Poster Contest

National Chemistry Week 2015 Illustrated Poem Contest:
“Chemistry Colors Our World”

The NORTH JERSEY SECTION of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in Kindergarten - 12th grade. Please hold a competition within your school and SEND ONLY YOUR TOP 3 WINNERS IN EACH AGE CATEGORY:

| GRADES | K-2 | 3-5 | 6-8 | 9-12 |

Contest Deadline: FRIDAY, OCTOBER 23, 2015

Prizes: Section Winners 1st Place $50, 2nd Place $25, 3rd Place $10
Teachers will receive a corresponding monetary prize.

Notification: Local Section winners will be notified by November 14th.
Mail to: NJACS Office, Bettyann Howson, 49 Pippins Way, Morris Township, NJ 07960

#1 Winners of the North Jersey Illustrated Poem Contest will advance to the ACS National Illustrated Poem Contest! National ACS will award $300 to first-place and $150 to second-place National Contest winners in each grade category!

Write and illustrate a poem using the NCW theme, “Chemistry Colors Our World”. Your poem must be no more than 40 words, and in the following styles to be considered:

- HAIKU
- LIMERICK
- ODE
- ABC POEM
- FREE VERSE
- END RHYME
- BLANK VERSE

Participants are encouraged to explore topics related to:
- Dyes and pigments
- Absorbed and reflected light
- The chemistry of fireworks
- Natural and artificial colors
- Any other relevant topics
- Adherence to poem style
- Originality and creativity
- Overall presentation

Entries will be judged based upon:
- Relevance to and incorporation of the theme
- Word choice and imagery
- Colorful artwork
- Adherence to poem style
- Originality and creativity
- Overall presentation

Contest Rules:
- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the NCW 2015 theme, “Chemistry Colors Our World”.
- All entries must be original works without aid from others.
- Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11” x 14”. The illustration must be created by hand using crayons, watercolors, other types of paint, colored pencils or markers. The text of the poem should be easy to read and may be printed with a computer, below the hand-drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.
- Only one entry per student will be accepted.
- All entries must include as entry form:
  - All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
  - Acceptance of prize constitutes consent to use winners’ names, likenesses and entries for editorial, advertising and publicity purposes.

American Chemical Society
Call for Help

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/](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
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. 17th (Check appropriate box)

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

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<th>First Name</th>
<th>Institution:</th>
<th>Contact Information (email)</th>
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EMAIL TO: Claire Miller (cmiller07940@yahoo.com)
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.

GUSTAVUS JOHN ESSELEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST

The Esselen Award for Chemistry in the public interest is a very prestigious honor provided by the Northeastern section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The Awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of the work should have become apparent within the five years preceding nomination.

The Esselen Award has no limitations with respect to the chemical field in which the nominees are active. It differs from many other awards in that it is for chemical activities whose importance to the public has been demonstrated.

The award consists of a medal and a check for $5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award is usually presented at the April meeting of the Northeastern Section in Cambridge, Massachusetts. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest. The award address should be at a level where it would be of interest to an audience that does not have knowledge of the specific field.

Nominations shall include: 1) a letter signed by the primary sponsor with a description of the nominee’s work recognized as making a major contribution to the public welfare and as communicating positive values of the chemical profession, plus the names of two co-sponsors; 2) short supporting co-sponsor statements; 3) the nominee’s professional biography including a list of no more than ten of the nominee’s publications selected for their pertinence to the work nominated for recognition; and 4) copies of popular and technical press news or feature articles indicative of public benefit and interest.

Inquiries should be directed to Dr. Karl Hansen, c/o Karen Piper, 19 Mill Road, Harvard, MA 01451. All nomination material must be consolidated into a single electronic pdf file and emailed to karl@amgen.com with a copy to piper281@verizon.net. The due date is October 15, 2015. Joint nominations are acceptable. The Committee will review the nominations and the award recipient will be notified by the first of February.
“Chemistry Colors Our World!”

When: Sunday, October 18, 2015 (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 with Dr. Met, the official mascot of the New York Mets baseball team. FREE admission to NYSCI between 10-11 AM.
Who: Last year, activities were presented by 240 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 participating in or sponsoring an activity table at the event, please contact Dr. Ping Furlan (furlan@usmra.edu), Dr. Zhachua Dai (zdaic@cace.edu), or Mrs. Erin Wasserman (illustrated poem contest coordinator, ewasserman602z@gmail.com). 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/NCW2015 ncw.php.

You can also find additional information about NCW on the American Chemical Society’s website at http://www.acs.org/content/acs/en/education/outreach/ncw/about.html.
Professional/Product Directory

NJIT
New Jersey’s Science & Technology University

MATERIAL CHARACTERIZATION LABORATORY
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  - NMR
  - FTIR
  - TOC
  - AA
  - ICP MS
  - XRD
  - XRF
  - AFM
  - SEM
York Center for Environmental Engineering & Science
www.yces.njit.edu/labs
138 Warren Street
Newark, NJ 07102
Tel: (973) 596-5888
Fax: (973) 642-2170

NMR Service 500 MHz
*Mass
*Elemental Analysis
NuMega Resonance Labs
numegalabs.com P- 856-793-6057

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

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