

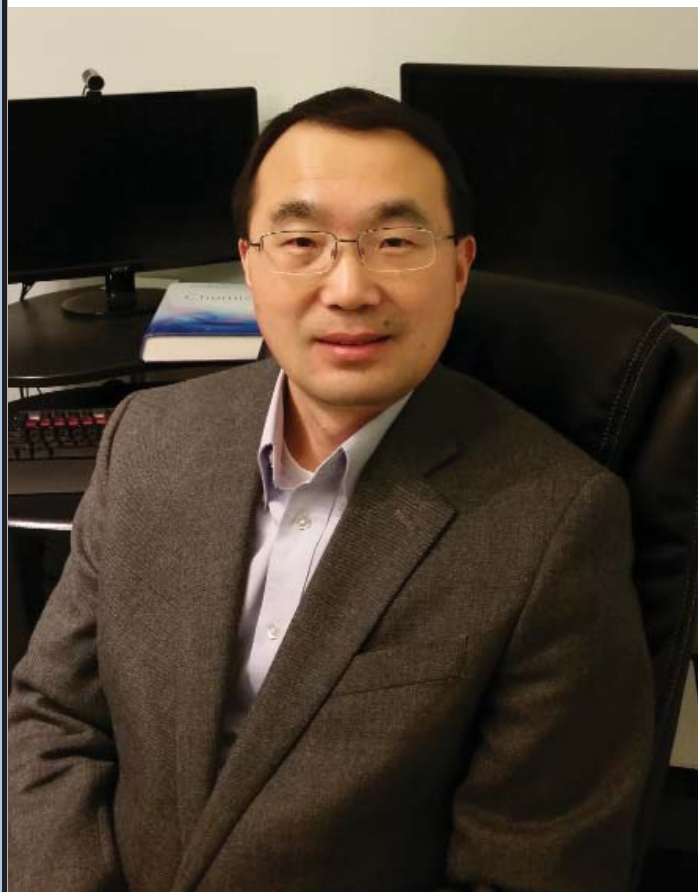
# THE Indicator

JANUARY 2015

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## **Dr. Ronald Kong 2015 Chair North Jersey Section**



*See Chair's Message on page 5.*

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# Thanksgiving Proclamation

*Issued by President George Washington, at the request of Congress,  
on October 3, 1789*

## BY THE PRESIDENT OF THE UNITED STATES OF AMERICA, A PROCLAMATION

Whereas it is the duty of all nations to acknowledge the providence of Almighty God, to obey His will, to be grateful for His benefits, and humbly to implore His protection and favor; And whereas both Houses of Congress have, by their joint committee, requested me “to recommend to the people of the United States a day of public thanksgiving and prayer, to be observed by acknowledging with grateful hearts the many and signal favors of Almighty God, especially by affording them an opportunity peaceably to establish a form of government for their safety and happiness:”

Now, therefore, I do recommend and assign Thursday, the 26th day of November next to be devoted by the people of these States to the service of that great and glorious Being who is the beneficent author of all the good that was, that is, or that will be; that we may then all unite in rendering unto Him our sincere and humble thanks for His kind care and protection of the people of this country previous to their becoming a nation; for the signal and manifold mercies and the favorable interpositions of His providence in the course and conclusion of the late war; for the great degree of tranquility, union, and plenty which we have since enjoyed; for the peaceable and rational manner in which we have been enabled to establish constitutions of government for our safety and happiness, and particularly the national one now lately instituted; for the civil and religious liberty with which we are blessed, and the means we have of acquiring and diffusing useful knowledge; and in general, for all the great and various favors which He has been pleased to confer upon us.

And also that we may then unite in most humbly offering our prayers and supplications to the great Lord and Ruler of Nations, and beseech Him to pardon our national and other transgressions; to enable us all, whether in public or private stations, to perform our several and relative duties properly and punctually; to render our National Government a blessing to all the people by constantly being a Government of wise, just, and constitutional laws, discreetly and faithfully executed and obeyed; to protect and guide all sovereigns and nations (especially such as have shown kindness to us), and to bless them with good governments, peace, and concord; to promote the knowledge and practice of true religion and virtue, and the increase of science among them and us; and, generally to grant unto all mankind such a degree of temporal prosperity as He alone knows to be best.

Given under my hand at the City of New York the third day of October in the year of our Lord, one thousand seven hundred and eighty-nine. (1789)

George Washington

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Indicator** The monthly newsletter of the New York & North  
Jersey Sections of the American Chemical  
Society. Published jointly by the two sections.**Visit Us**[www.TheIndicator.org](http://www.TheIndicator.org)**CONTENTS**

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**EDITORIAL DEADLINES**

February 2015	December 20, 2014
March	January 20, 2015
April	February 20
May	March 20
June	April 20
September	July 20
October	August 20
November	September 20
December	October 20
January 2016	November 20, 2015

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

## January Calendar

### NEW YORK SECTION

**Wednesday, January 7, 2015**

Chemical Marketing & Economics Group  
See page 10.

**Saturday, January 17, 2015**

New York Sectionwide Conference  
See page 9.

**Tuesday, January 27, 2015**

Biochemical Topical Group  
See page 11.

**Friday, January 30, 2015**

High School Teachers Topical Group  
See page 11.

*also*

**Tuesdays, Feb. 3 and Apr. 7, 2015**

NY Nanoscience Discussion Group  
See page 12.

**Thursdays, Feb. 5, Mar. 5, Apr. 2,  
and Fri., Apr. 24, 2015**

Long Island Subsection  
See pages 12-13 and 15.

**Thursday, February 7, 2015**

20th Annual HS Poster Session  
See page 13.

**Fridays, Feb. 10, Mar. 10, Apr. 22, 2015**

Westchester Chemical Society  
See pages 14-15.

**Saturday, May 9, 2015**

63rd Annual URS  
See page 16.

### NORTH JERSEY SECTION

**Monday, January 12, 2015**

Careers in Transition Group  
See page 6.

**Monday, January 26, 2015**

North Jersey Executive Meeting  
See page 6.

*also*

**Tuesday, February 10, 2015**

NMR Topical Group  
See page 7.

**Monday, April 27, 2015**

Spring Symposium and Vendor Exposition  
See page 7.

**Sunday-Friday, June 7-12, 2015**

Drew University Res-Med Seminar  
See page 7.

***The Indicator is  
posted to the web on  
the 15th of the  
previous month at  
[www.TheIndicator.org](http://www.TheIndicator.org)***

**Deadline for items to be included in the  
February 2015 issue of *The Indicator* is**

**December 20, 2014**



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## 2015 ACS North Jersey Section Chair's Message

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My fellow members of the ACS,

It is a great pleasure and honor for me to serve as the Chair of the North Jersey Section of ACS (NJACS) for 2015. I would like to thank the officers and volunteers in North Jersey who have made our section one of the most dynamic sections within the ACS. I look forward to working with this dedicated and creative group to continue to promote the ACS mission of "Improving people's lives through the transforming power of chemistry".

The North Jersey Section is the home of many dynamic and diverse topical groups and committees that are comprised of talented scientists in the interdisciplinary fields of chemistry, including Mass Spectrometry Discussion Group, Drug Metabolism Discussion Group, Chromatography Group, NMR Discussion Group, Organic Topical Group, Teacher Affiliates, MetroWomen Chemists Committee, Younger Chemists Committee, and Careers in Transition Committee. These groups offer exciting seminars, symposia, and events throughout the year, which provide unique opportunities for continuous education and networking. This section will also host the Leo Hendrik Baekeland Award and symposium in late 2015.

The North Jersey Section will continue with its numerous public outreach programs including Project SEED, National Chemistry Week, and the Chemistry Olympiad. Additionally, this section has strengthened the partnership with Students 2 Science, a non-profit corporation that inspires, motivates, and educates Middle School Students to pursue careers in Science, Technology, Engineering and Math (STEM subjects).

As Chair of the North Jersey Section, I will work hard to promote awareness of the national ACS benefits and section resources for our members in career development or change. I will also work with the section officers and volunteers to continue our wide-ranging and exciting events that have gained the national spotlight and to ensure that the NJACS receives national recognitions for events organized by our dedicated volunteers and members.

As we move into 2015, I encourage our members to participate and volunteer in NJACS activities. I also encourage our members to contact me with any thoughts, ideas, and suggestions. I look forward to an exciting and promising year of 2015.

Ronald Kong  
2015 Chair, North Jersey Section ACS

## 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, January 26, 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

Directions can be found here:

<http://rumaps.rutgers.edu/?id=C71942>

For reservations please call (732) 463-7271 or email [chemphun@gmail.com](mailto:chemphun@gmail.com) prior to Wednesday, January 26, 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, January 12, 2015

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

Times: Meeting 5:30 - 9:00 PM  
Pizza snack and soda 6:30 PM  
Place: Students 2 Science, Inc.  
66 Deforest Avenue  
East Hanover, NJ  
Cost: \$5.00 for pizza and soda

Reservations: at [www.njacs.org/careers.html](http://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 [bill suits@earthlink.net](mailto:bill suits@earthlink.net).

See [www.njacs.org](http://www.njacs.org) under the Career tab for Jobs hidden from sight and relevant blogs.



### NJACS PARTNERS WITH STUDENTS2SCIENCE

Members are encouraged to volunteer at their East Hanover facility and explore their website at [www.students2science.org](http://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.



## NORTH JERSEY DRUG METABOLISM DISCUSSION GROUP

### February Dinner Meeting and Seminar

Sponsored by: AB Sciex

Additional details and a full schedule of events will be posted on our website at <http://www.njacs.org/topical-groups/mass-spectrometry>, along with a registration link. The evening is free for attendees, courtesy of our sponsor, AB Sciex, but we request that all interested in attending register.

**Date:** Tuesday, February 10, 2015

Times: 5:30 - 9:00 PM

Place: Holiday Inn Somerset-Bridgewater  
195 Davison Avenue  
Somerset, NJ

Cost: Free for attendees, courtesy of our sponsor, AB Sciex

We request that all interested in attending register on our website.



## NORTH JERSEY DRUG METABOLISM DISCUSSION GROUP

### Spring Symposium and Vendor Exhibition

Details will be posted at <http://www.njacs.org/topical-groups/drug-metabolism>.

**Date:** Monday, April 27, 2015

Times: 8:00 AM to 4:00 PM

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

Learn more about the  
North Jersey Section at  
[www.NJACS.org](http://www.NJACS.org)

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## 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](http://www.drew.edu/resmed), email [resmed@drew.edu](mailto:resmed@drew.edu), phone (973) 408-3787 or fax 973/408-3504.

ResMed: Residential School on Medicinal Chemistry and Biology in Drug Discovery  
June 7-12, 2015  
Drew University, Madison, NJ

This graduate level course concentrates 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 covers:

Principles of Med Chem	DMPK
Cheminformatics	Toxicophores
Lead ID & Optimization	GPCRs
Epigenetics	Kinase Inhibitors
Fragment-based Drug Design	Ion Channels
Structure-based Drug Design	Enzyme Inhibitors
Drug-like Properties	Bioisosteres
Plasma Protein Binding	Preclinical Tox
Molecular Modeling	Clinical Dev
Protein-Protein Interactions	Case Histories

W. Greenlee, V. Gullo and R. Doll –Co-organizers

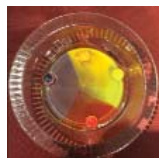
For more information and application forms:  
[www.drew.edu/resmed](http://www.drew.edu/resmed)  
e-mail: [resmed@drew.edu](mailto:resmed@drew.edu)  
phone: 973/408-3787; fax: 973/408-3504

## ChemExpo 2014

### The Sweet Side of Chemistry - Candy

In celebration of National Chemistry Week at Liberty Science Center, Jersey City, New Jersey, on Saturday, October 18, 2014, the concerted effort of 250 volunteers from academia and industry, and students at local colleges, universities, middle and high schools in North Jersey made the 20th celebration of ChemExpo 2014 a huge success. Approximately 800 visitors were pumped with Energy generated by "Candy Chemistry".

For the fifth year in a row, Chemistry Chapters from ten institutions competed for the *Sister Marian José Smith Undergraduate Public Outreach Award*. The group of students from Ramapo College was awarded the first place for their highly interactive and enthusiastic presentations at **ChemExpo** with the students from Fairleigh Dickinson University and College of St. Elizabeth (sharing second place with a tie) earning the second place together. This year the steering committee introduced a high school chemistry contest. J.P. Stevens High School from Edison won the first position followed by Hillside High School in the second position. These awards are funded by the North Jersey Section. The **ChemExpo** steering committee has recognized Marilyn (Bobbi) Gorman for her undying passion for chemistry and endless effort to educate students and community.



**The first place winner of Sister Marian José Smith Undergraduate Public Outreach Award.**



**The first place winner of The High School Chemistry Contest.**

Generous donations from three corporations, Infineum USA L.P., BASF, and SPEX CertiPrep, helped defray the costs of holding such a large event. The North Jersey Section is indebted to members of the NJACS Executive Board; the ChemExpo 2014 Steering Committee; retired chemists; chemistry teachers at the participating universities, colleges, middle and high schools; and representatives from various chemical companies for making this event highly successful.



**Marilyn Gorman and Monica Sekharan.**



*(All photos courtesy of Mita Chaki)*

Mita Chaki and Monica Sekharan,  
NCW Coordinators  
American Chemical Society  
North Jersey Section



## NEW YORK SECTION – 2015 SECTION-WIDE CONFERENCE

Please register at: <http://www.newyorkacs.org/meetings/sectionwide/sectionwide2015.php>

**Date:** Saturday, January 17, 2015

**Times:** 9:30AM – 1:00PM

**Place:** St. Joseph's College, Tuohy Hall, 245 Clinton Avenue, Brooklyn, NY

**Campus Map** [http://www.sjcnj.edu/files/images/BK\\_Map.jpg](http://www.sjcnj.edu/files/images/BK_Map.jpg)

**Directions** <http://sjcnj.edu/directions>

**Cost:** FREE TO ALL

### PROGRAM

9:30 AM **Arrival and Refreshments**

10:00 AM **Greetings from the New York ACS 2015 Chair**

Dr. Paris Svoronos

10:10 AM **Award Presentations**

Service Plaque and Pin to the 2014 New York Section Chair

Dr. Pamela K. Kerrigan

New York Section Outstanding Service Award for 2014

Dr. Jill K. Rehmann

Nichols Foundation H.S. Chemistry Teacher Award for 2014

Mr. Matthew Christiansen  
Islip High School, Islip, NY

10:30 AM **Presentation of Candidates for the 2015 Elections**

Dr. Alison G. Hyslop  
2015 Chair-elect  
ACS New York Section

10:45 AM **Keynote Speaker**

Dr. Wayne E. Jones, Jr.  
Professor, Inorganic And Materials Chemistry  
Binghamton University

### **Title: Capturing the Power of the Sun Using Molecular Wires and Devices: From Photovoltaics to Photocatalysis for Environmental Remediation**

The development of ever smaller electronic and photonic devices has recently focused on the preparation of molecular scale devices for a variety of applications. We have been exploring molecular devices as a means of harvesting the sun's energy to drive useful processes. Examples include creating of new photovoltaic energy systems. Combinations of organic and inorganic structures can create new, low cost, photovoltaics which could be critical for our society. We can also explore the preparation of these materials using high volume roll to roll processing. Nanoparticles and nanofibrous semiconductors such as TiO<sub>2</sub> can also be prepared which drive chemical processes. The new photocatalytic materials can be applied to solve other types of environmental problems such as degradation of toxic materials from industrial waste streams or even chemical warfare agents. The synthesis, design, and molecular characterization of recent materials will be discussed.

11:45 AM **Coffee Break** — There will be poster presentations by the New York Section Project SEED Students.

12:00 PM **ACS, New York Section Committee Planning Sessions for 2015**

**Educational Activities:** (Chemagination, Chemists Celebrate Earth Day, Continuing Education, High School Olympiad, National Chemistry Week, Nichols Foundation Teacher Award, Project SEED, Student Membership)

*Chair:* Dr. Alison G. Hyslop

**Member Affairs:** (ACS Fellows, Awards, Employment and Professional Relations, History of the New York Section, *The Indicator*, Membership, Outstanding Service Award)

*Chair:* Dr. Ralph Stephani

**Program Review:** (Subsection and Topical Discussion Group Chairs)

*Chair:* Dr. Anne T. O'Brien

**Public Affairs:** (Academe and Industrial Relations, Environmental Chemistry, Fund Raising, Government Affairs, Information Technology, Public Relations, Speakers Bureau)

*Chair:* Dr. Robert P. Nolan

**MARM 2016 Planning:** (Co-Chairs: Dr. Pamela Kerrigan and Dr. Daniel Amarante). Volunteers Welcome.

12:45 PM **Reports from the Chairs of the Committee Planning Sessions**

1:00 PM **Conclusion of the Meeting.** Join with colleagues for lunch at a local restaurant.

To inquire about the Section-wide Conference, please call the New York Section Office at (516) 883-7510 or e-mail Marilyn Jespersen, Office Administrator, at: [njesper1@optonline.net](mailto:njesper1@optonline.net)

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## New York Meetings

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[www.newyorkacs.org](http://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](mailto: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, February 13, 2015

Friday, April 24, 2015

Friday, June 5, 2015

Friday September 18, 2015

Friday November 20, 2015

In addition please mark your calendar with the dates of the following major events:

**Saturday, January 17, 2015**, Annual Section-wide Conference. St. Joseph's College, Brooklyn, NY

Friday, April 17, 2015, William H. Nichols Medal Award Symposium and Dinner, Crowne Plaza Hotel, White Plains, NY

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

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

**Learn more about the  
New York Section at  
[www.NewYorkACS.org](http://www.NewYorkACS.org)**

## CHEMICAL MARKETING AND ECONOMICS GROUP

### 2015 Industry Economic Outlook

*Speaker:* Dr. T. Kevin Swift  
Chief Economist  
American Chemistry Council  
Arlington, VA

Dr. Swift will share his expert outlook for themajor economic trends that will shape the continuingrecovery for the North American chemical industry. Dr. Swift has presented at CM&E meetings in the past, and we are looking forward to having Dr. Swift join us again in NYC to share his updated views on what the chemical industry can expect in 2015 and beyond.

Dr. Swift is responsible for economic and other analyses dealing with markets, raw materials, trade, tax, energy, and competition and innovation, as well as monitoring business conditions and identifying emerging trends for the domestic and global chemical sector. Prior to joining the ACC, Dr. Swift held executive and senior level positions at several market research companies and started his career at Dow Chemical USA.Dr. Swift is a member of the National Association for Business Economics (NABE), the National Economists Club, and the Harvard Industrial Economists Discussion Group. He received a doctorate in business administration from Anglia Polytechnic University. He also holds a BA degree from Ashland University and his MA degree in economics from Case Western Reserve University. Dr. Swift is an adjunct professor of business economics for the MBA program at the University of Mary Washington.

**Date: Wednesday, January 7, 2015**

Times: Registration and Networking

11:15 AM - 12:00 Noon

Luncheon 12:00 Noon - 1:00 PM

Talk and Webcast 1:00 - 2:00 PM

Place: Yale Club

50 Vanderbilt Avenue

New York, NY

Cost: Luncheon Fees \$120

Webcast \$30

ACS members may request subsidized rates by writing to [contact@cmeacs.org](mailto:contact@cmeacs.org). That is true for all of our meetings.

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

### Cytokine-Based Immunotherapies

*Organizers:* Scott Brodeur, PhD  
Bristol-Myers Squibb

Scott MacDonnell, PhD  
Boehringer-Ingelheim

Kerry Ralph, MS  
Boehringer-Ingelheim

Sonya Dougal, PhD  
The New York Academy of Sciences

*Keynote:* James W. Mier, MD  
Beth Israel Deaconess Medical Center/ Harvard Medical School

*Speakers:* Stephen D. Gillies, PhD  
Provenance Biopharmaceuticals

Dario Neri, PhD  
Philogen

Jerome Ritz, MD  
Harvard Medical School

Gilles Uzé, PhD  
Université Montpellier II

K. Dane Wittrup, PhD  
Massachusetts Institute of Technology

Systemic toxicity currently prevents exploiting the potential of many cytokines to treat cancer, viral infections, inflammatory and autoimmune conditions. Targeted delivery of immune-stimulatory or -regulatory cytokines offers a strategy for treatment by improving the therapeutic index with acceptable side effects. This symposium explores promising new developments in immunocytokine therapies.

**Date:** Tuesday, January 27, 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/Cytokines2015](http://www.nyas.org/Cytokines2015).

To become a Member of the Academy, visit [www.nyas.org/benefits](http://www.nyas.org/benefits).



## HIGH SCHOOL TEACHERS TOPICAL GROUP

### Indigo and Cochineal: Uniform Colors

*Speaker:* Robert F. Drake  
[drbobdrake@gmail.com](mailto:drbobdrake@gmail.com)

This talk will delve into the source, history and use of two natural dyes, indigo and cochineal, as well as their chemical structures. Indigo is the source of navy blue as well as blue jeans blue, and cochineal is the source of the red of British red coats and strawberry yoghurt.

**Date:** Friday, January 30, 2015

**Time:** Social and Dinner — 5:45 PM

**Place:** George's  
89 Greenwich Street (at Rector Street, South-east corner)  
New York, NY  
No reservations required  
(212) 269-8026  
<http://georges-ny.com>

**Time:** Meeting — 7:15 PM

**Place:** United Federation of Teachers  
52 Broadway  
New York, NY

Check with security for room location. This is just South of Exchange Place and the Wall Street Station on the #4 & #5 subway lines. It is a short walk from the several other subway stations.

Security at UFT 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:** Street parking is free after 7:00 PM. Off street, garage parking is available in the area. Public transportation is strongly recommended.

## 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](mailto:hessytaft@hotmail.com).

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



## NEW YORK NANOSCIENCE DISCUSSION GROUP

### 2014-2015 Sessions

*Speakers to be announced*

*Hosted by:* New York University  
Department of Chemistry

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, February 3, 2015  
Tuesday, April 7, 2015

**Times:** Refreshments at 7:00 PM  
Science at 7:30 p.m.

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

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

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

## LONG ISLAND SUBSECTION

### Discovery and Development of Purine-scaffold Hsp90 Inhibitors for the Treatment of Cancer

*Speaker:* Tony Taldone, PhD  
Senior Research Scientist  
Memorial Sloan Kettering  
Cancer Center

Heat shock protein 90 (Hsp90) is a molecular chaperone exploited by cancer cells to aid in their survival. The recognition of Hsp90 as a critical facilitator for oncogene addiction and survival of cancer cells has opened a promising new niche for cancer treatment. The serendipitous discovery that the broad spectrum anticancer activity of the natural products geldanamycin (GM) and radicicol (RD) was a result of inhibition of Hsp90 resulted in the development of improved derivatives of these natural products. One of these was 17-AAG, a closely related analog of GM, and was in fact the first Hsp90 inhibitor to enter the clinic. However, GM and its analogs suffer from poor "drug-like" properties and this served as a strong impetus for the development of novel synthetic Hsp90 inhibitors. One class to exhibit enhanced potency and improved pharmacokinetic properties is the purine-scaffold. A number of small-molecule Hsp90 inhibitors based on the purine-scaffold are currently being evaluated in clinical trials for cancer. Here, I will discuss their initial discovery and development into potential anticancer agents.

**Date:** Thursday, February 5, 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>

\*\*\*\*

### Upcoming Meetings

#### "Spice Tales": Rapid Detection and Quantification of Synthetic Cannabinoids

*Speaker:* Ling Huang, PhD  
Department of Chemistry  
Hofstra University

**Date:** Thursday, March 5, 2015

\*\*\*\*

## Electrophilic Cyclizations of Alkynes—Facile Approaches to Heterocyclic and Carbocyclic Molecules

*Speaker:* Yu Chen, PhD  
Department of Chemistry  
Queens College

**Date:** Thursday, April 2, 2015



## NEW YORK SECTION OF ACS AND ST. JOSEPH'S COLLEGE

### 20th Annual High School Poster Session

*Sponsored by:* The New York Section of the American Chemical Society and St. Joseph's College



**Carlo Yuvienco, PhD**  
Physical Sciences  
Department  
St. Joseph's College

The annual poster session provides an opportunity for talented high school students from the metropolitan area to compete and be recognized for their research accomplishments.

The program includes:

- Judging of posters by scientists working in industry and academia

- Guest speaker: Carlo Yuvienco, PhD, Physical Sciences Department, St. Joseph's College
- Certificates to all participants
- Prizes to the four winning presenters.

### Protein-based Drug Delivery Agents

*Featured Keynote Speaker:*

Carlo Yuvienco, PhD  
Physical Sciences  
Department  
St. Joseph's College

With the advancement of technologies to probe and manipulate biophysical matter, the scientific community continues to ever better engineer biological systems with the complexity and elegance in design that is necessary to address biomedical challenges. The growing maturity of the field of protein engineering is a testament to this proclamation.

Dr. Carlo Yuvienco holds a PhD in Biomedical Engineering from New York University and a BE in Chemical Engineering from the Cooper Union for the Advancement of Science and Art. His research focus is currently the application of engineered protein constructs for drug delivery applications.

**Date:** Saturday, February 7, 2015

Times: 9:00 AM - 1:00 PM

Place: St. Joseph's College  
245 Clinton Avenue  
Brooklyn, NY

For more information or to register visit:

[www.sjcnj.edu/postersession](http://www.sjcnj.edu/postersession).


Professionals willing to be a judge, please contact Rhomesia Ramkellowan at

[rramkellowan@sjcnj.edu](mailto:rramkellowan@sjcnj.edu) or

[sjhighschoolpostersession@gmail.com](mailto:sjhighschoolpostersession@gmail.com).

(Include HS Poster Session in the subject line).

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## WESTCHESTER CHEMICAL SOCIETY

### WINTER/SPRING MEETINGS

#### **Special Seminar – “Anammox: Nitrogen Removal for the 21st Century”**

**Speaker:** Mahsa Mehrdad  
 Research Associate  
 (Ph.D. Candidate)  
 Department of Civil Engineering,  
 Environmental Engineering  
 Program  
 The City College of New York  
 New York, NY

The requirement to minimize the impact of domestic effluent on public and environmental health is an important component of wastewater treatment. Removal of nutrients such as nitrogen and phosphorus is a big concern as the combination of these two can cause uncontrolled algae blooms, which choke waterways. As the discharge permit limits the amount of nitrogen for New York City's waste water treatment plants (WWTPs), New York City Environmental Protection (NYCEP) embarked on a comprehensive nitrogen control program by implementing biological nitrogen removal (BNR) technologies in the main flow of its plants and separate sidestream treatment for centrate, an internal high ammonia concentration sidestream generated during the dewatering of the anaerobic digested sludge.

Typically, ammonia is converted to nitrogen gas in a two-step nitrification/denitrification process. This nitrogen removal method entails significant use of energy for aeration, chemicals to supplement alkalinity, and carbon which accounts for most of the operating costs. A more promising method is the anammox process which further reduces the energy cost, reduces the alkalinity required, eliminates the need for a carbon source, reduces the production of sludge solids, and diminishes the carbon footprint. In 2011, NYCEP in conjunction with City College of New York (CCNY) assessed the application of the anammox process in centrate treatment using a moving bed biofilm reactor (MBBR) located at the 26th Ward wastewater treatment plant, in Brooklyn, NY. Up to 70% nitrogen removal was achieved without alkalinity addition.

Ms. Mehrdad studied Chemical Engineering at Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran (BS,

2007, and MS, 2010). During these studies, she was an intern in petrochemical process engineering at Sazeh Consultants Company in Tehran and a research assistant to Prof. Babak Bonakdar at Amirkabir University studying the catalytic effects of different redox mediators on the decolorization of azo dyes in a Sequencing Batch Reactor. In 2010, she was awarded a PhD fellowship by the City College of New York and joined Professor John Fillos's research group. As a part of the research group, she was involved in the operation and performance optimization of the anammox MBBR pilot at 26th Ward wastewater treatment plant. Her independent activities included the mathematical modeling of the process and the investigation of microbial population diversity.

#### **Tentative Date:**

**Tuesday, February 10, 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

Further Information: Paul Dillon

[PaulWDillon2@hotmail.com](mailto:PaulWDillon2@hotmail.com)

(914) 393-6940

Or:

Anthony Durante

[anthony.durante@bcc.cuny.edu](mailto:anthony.durante@bcc.cuny.edu)

(718) 289-5542 or 5569

Note: Inclement Weather: Cancellation Due to Inclement Weather

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

\*\*\*\*

#### **Special Seminar – “Nanoscience of Graphene and Other Two-dimensional Materials”**

**Speaker:** Phaeton Avouris, PhD  
 IBM Fellow  
 Manager, Nanometer Scale  
 Science & Technology



IBM Research Division  
T.J. Watson Research Center  
Yorktown Heights, NY

Abstract and CV will be supplied in a later issue.

**Tentative Date:**

**Tuesday, March 10, 2015**

Times, Place, Cost and Further Information:

*See above.*

\*\*\*\*

**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:**

**Wednesday, April 22, 2015**

Times, Place, Cost and Further Information:

*See above.*

\*\*\*\*

**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, Place, Cost and Further Information:

*See above.*



## LONG ISLAND SUBSECTION

### The 15th Annual LI-ACS Chemistry Challenge

The Long Island subsection of the NY-ACS invites you to participate in the 15th Annual Chemistry Challenge, to be held at CUNY Queensborough Community College. The Chemistry Challenge is a fun, fast-paced “Jeopardy-style” competition between Chemistry students of local colleges. Timed, multiple choice questions (~75% General and 25% Organic Chemistry) will be asked during the competition. Students will discuss the questions with their team members and select a final answer using electronic “Clickers.” Medals and prizes will be awarded to the top student teams. The atmosphere is exciting and brings both students and mentors together!

To register a student team or obtain more information, please contact Paul Sideris at [psideris@qcc.cuny.edu](mailto:psideris@qcc.cuny.edu). To view photographs from prior Chemistry Challenge events, please visit: <http://www.qcc.cuny.edu/chemistry/chemchallwinner.html>

**Date: Friday, April 24, 2015**

Times: Dinner – 5:00 PM

Chemistry Challenge – 6:00 PM

Place: CUNY Queensborough

Community College

Science Building, S-111

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



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63<sup>rd</sup>

ANNUAL UNDERGRADUATE  
RESEARCH SYMPOSIUM

## The Student Activities Committee of the New York Section of the American Chemical Society

Saturday, May 9<sup>th</sup>, 2015 at Queensborough Community College

8:00 am – 3:00 pm (breakfast, luncheon and award reception included)

Sign up as an attendee at <http://www.newyorkacs.org/meetings/urs/urs.php>

### Keynote Speaker: Dr. JaimeLee Rizzo

Department of Chemistry and Physical Sciences, Pace University

JaimeLee Iolani Rizzo is a Professor of Chemistry in the Department of Chemistry and Physical Sciences at Pace University, NYC campus. A native of Honolulu, Hawai'i, Dr. Rizzo received her associate's degree from Queensborough Community College followed by a bachelor's and a master's degree in Chemistry from Queens College, CUNY. She completed her graduate studies under the tutelage of Robert Ralph Englal at Queens College, CUNY, where she developed an interest in organic synthesis particularly polyammonium compounds. A series of these compounds were covalently bound to macromolecules where host/guest binding interactions were investigated.

In 2001, Dr. Rizzo joined the faculty at Pace University, where her laboratory co-developed a method to bind polycationic organic compounds to carbohydrate-based surfaces which exhibits antimicrobial activity. This work has led to the acquisition of 14 patents and 5 publications. Johnson & Johnson Wound Management Division and Prismatic Dyeing and Finishing Company have supported this endeavor and are collaborators on some patents.



### Keynote Address

#### Constructing Killer Surfaces

Our laboratory has been developing an array of new surfaces that kill bacteria and fungi on contact. We have successfully synthesized antimicrobial surfaces that destroy bacteria and fungi where the mode of action is through an electrostatic disruption of the cell wall. The antimicrobial activity of the surface is continual with regard to the agent that is covalently bound to the surface because it is not consumed in the process of invasion and disruption of the cell wall. This makes it unlikely that microorganisms could become resistant to this type of attack as it would involve a major modification of their cell-wall structure. Surfaces which have been prepared include carbohydrate-based materials as in wood, cotton cloth, paper; proteinaceous-based as in wool and silk; chitosan; agarose; gelatin  $\beta$ . The agents that are covalently bound to a given surface are a series of quaternary ammonium salts. The salts are then attached via a simple two-step procedure that involves activation of the surface followed by an  $\text{SN}_2$  reaction of the salt with the activated surface. The synthesis, characterization, and bacteriological results will be presented.

#### SIGNIFICANT DATES FOR 63<sup>rd</sup> URS

Deadline for Abstract Submission - **March 20, 2015**      Abstract acceptance notification – April 6, 2015  
Deadline for Symposium Advanced Registration – April 10, 2015

2015 Co-chair  
**Dr. Justyna Widera**  
Adelphi University  
widera@adelphi.edu

2015 Co-chair  
**Dr. Yolanda Small**  
York College - CUNY  
ysmail@york.cuny.edu

2015 Co-chair  
**Dr. Paul Sideris**  
Queensborough CC - CUNY  
psideris@qcc.cuny.edu

2015 Co-chair  
**Dr. Sharon Lall-Ramnarine**  
Queensborough CC - CUNY  
sllallramnarine@qcc.cuny.edu

FREE Registration for student members of the National ACS, faculty mentors who register in advance and sponsors. For non-ACS members and guests, the registration is \$35 in advance. All on-site registration is \$45 for faculty, staff and guests. Checks for the registration fee should be made out to: "NY ACS URS" and sent to: Prof. Justyna Widera, Adelphi University, Department of Chemistry, Science 201, 1 South Avenue, Garden City, NY 11530.

Learn how you could get involved  
in ACS by e-mailing  
**Volunteer@TheIndicator.org**

## WESTCHESTER CHEMICAL SOCIETY

On Wednesday evening, November 19, 2014, the Westchester Chemical Society hosted, at the Westchester Community College in Valhalla, N.Y., a presentation for over twenty students and professionals by Dr. Aaron Socha, assistant professor in the Department of Chemistry at Bronx Community College and Director of that College's Center for Sustainable Energy (CSE). Dr. Socha gave an energetic and wide-ranging talk on a significant application of ionic liquids (ILs) – the pretreatment of biomass prior to its conversion into a variety of valuable chemicals. Ionic liquids are superior biomass pretreatment solvents due to their ability to produce nearly pure, easily hydrolyzable cellulose under mild conditions. However, the industrial deployment of ILs for large-volume applications such as biomass pretreatment is limited by their high cost and non-renewable raw material source (ethylene). Dr. Socha and colleagues have developed a method to produce benzylammonium ILs through reductive amination of lignin and hemicellulose derived aromatic aldehyde monomers. They have also shown these ILs to be as effective as petroleum derived imidazolium ILs under certain conditions. Further, these ILs, themselves derived from biomass, are more economical than the petroleum-derived ILs. The organization that Dr. Socha directs, the CSE, is the recipient of a grant from the Shimadzu Corporation and has won, under Dr. Socha's leadership, a \$9 million CUNY 2020 award from NY's Gov. Cuomo.

## THE NEW YORK HALL OF SCIENCE DEDICATED AS A NEW YORK HISTORIC CHEMICAL LANDMARK

The New York Hall of Science occupies one of the few remaining structures of the 1964 New York World's Fair in Flushing Meadow Park in Queens. Today it stands as New York City's only hands-on science and technology center. The more than 400 hands-on exhibits explore biology, chemistry and physics.

Because of its fifty-year history of educational outreach, and its long standing support of National Chemistry Week, the New York Section of the American Chemical Society declared the New York Hall of Science a New York Historic Chemical Landmark. New York Section Chair Dr. Pamela Kerrigan presented a plaque to NYSCI during the National Chemistry Week celebration on October 26, 2014.

This is the fourth New York Historic Chemical Landmark that has been administered by the ACS New York Section, following the Chemists' Club, the IBM Thomas J. Watson Research Center, and the Chemistry Department at the Brookhaven National Laboratory. In addition, there have been seven National Historic Chemical Landmarks within the New York Section over the past twenty years. Brief descriptions of each of these landmarks may be found at the New York Section website, [www.newyorkacs.org](http://www.newyorkacs.org), under the Committee on the History of the New York Section. The Section congratulates the New York Hall of Science on this achievement.

John B. Sharkey  
Chair, Committee on the History  
of the New York Section



**Members of the ACS New York Section gather to dedicate NYSCI as a New York Historic Chemical Landmark. Accepting the award is Erin Thelen, Public Relations Manager of the New York Hall of Science.**

*(Photo courtesy of John B. Sharkey)*



The second example uses the tools of surface science, coupled with optical pulse shaping methods, to address the quantum control of surface chemical dynamics. Carefully designed self-assembled monolayer samples along with surface sum frequency generation as a feedback signal, have been used to optimize selective bond manipulation at the surface. Possible applications to heterogeneous catalysis and electronic device preparation will be presented.

4:30 PM The Genesis and Integration of Heterogeneous, Homogeneous, and Enzyme Catalysis on the Nanoscale Professor Gabor A. Somorjai  
NICHOLS MEDALIST

The synthesis of metal and bimetallic nanoparticles in the 1-10 nm range, and mesoporous high surface area oxides, were utilized as heterogeneous catalysts. The rates and chemical selectivity of multi-path reactions were dependent on the nanoparticle size and the oxide-metal nanoparticle interface composition. Instruments including laser spectroscopy (sum frequency generation vibrational spectroscopy) and synchrotron based x-ray spectroscopies and scanning tunneling microscopy reveal the mobility and dynamic restructuring of adsorbed and reacting molecules and catalyst surfaces under reaction conditions. The formation of covalent bonds between the adsorbed molecules and the diverse structures of the catalyst surfaces are one important ingredient of catalytic selectivity. The charge transfer of oxide-metal interfaces to the reacting molecules (acid-base catalysis) is the other important property of catalytic reactivity. Metal nanoparticles at 1 nm size (40 atoms) and below behave as single metal-ion transition metal homogeneous catalysts. Studies of adsorbing enzyme catalysts on oxide surfaces explore how their rates and chemical selectivities are altered in progress.

5:45 PM Social Hour

6:45 PM William H. Nichols Medal Award Dinner Professor Kenneth B. Eisenthal (Columbia University) will introduce the Medalist

More information on the William H. Nichols Medal Events is available on the New York Section's website at <http://www.NewYorkACS.org>.

Tickets may be reserved using the following form, or preferably through the New York Section website that accepts credit cards or Paypal. <http://www.NewYorkACS.org>.

\*\*\*\*\* RESERVATION FORM \*\*\*\*\*  
**2015 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET in honor of Gabor A. Somorjai**

Return to: ACS, New York Section, c/o Dr. Neil D. Jespersen, Department of Chemistry, St. John's University, 8000 Utopia Parkway, Queens, NY 11439 (516) 883-7510

- Please reserve \_\_\_\_\_ places for the symposium & banquet at \$120/person, ACS member  
 \_\_\_\_\_ places for the symposium only at \$40/person, ACS member  
 \_\_\_\_\_ places for the banquet only at \$110/person, ACS member  
 \_\_\_\_\_ places for the symposium & banquet at \$150/person, Non-member  
 \_\_\_\_\_ places for the symposium only at \$60/person, Non-member  
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 \_\_\_\_\_ places for the symposium only at \$25/person, Students, Unemployed  
 \_\_\_\_\_ places for the symposium only complimentary for 50 year + ACS members

(For table reservations of 8 or more, use the ACS member \$120/person rate for combination tickets)

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Salmon _____	_____
Vegetarian _____	_____

**BANQUET RESERVATION DEADLINE: APRIL 7, 2015**

Please make checks payable to: ACS, NEW YORK SECTION Check for \$\_\_\_\_\_ enclosed



## NEW YORK LOCAL SECTION CELEBRATES NATIONAL CHEMISTRY WEEK

By Dr. Ping Furlan, Dr. Zhaohua Dai and Ms. Erin Wasserman  
National Chemistry Week Project Leaders, New York Local Section

On Sunday, October 26th, 2014 from 11 a.m. to 4 p.m., more than 280 volunteers from the major colleges, universities and industries in the New York area joined in the Local Section's effort and celebrated 2014 National Chemistry Week at the New York Hall of Science, located in Queens. Through thirty tables packed with more than forty fun-filled hands-on activities, the program showcased the chemical principles relating to the "Sweet side of chemistry: Candy" and demonstrated the values of chemistry in our everyday lives. Admission to the New York Hall of Science was FREE on the event date from 10-11 a.m., allowing the New York Local Section to effectively reach and engage over 1,000 museum visitors, especially students in grades K-8, with this highly interactive outreach program.

In keeping with this year's theme, a large-screen slideshow with images and animations was created to illustrate the chemistry of various forms of candy, and to highlight the Section's people and community events. Theme-related activities included "making your own beverage", "dancing raisins", "colorful lather printing", "scent IQ: sweets", "pop rocks acidity", "M&Ms", "sinking a marshmallow", "cornstarch boo", and "growing marshmallows". Dr. Met, the official mascot of the New York Mets baseball team, made a special appearance once again and took photos with the visitors.

Special to this year's celebration was the Section's dedication ceremony at noon that dedicated the New York Hall of Science as a New York Historic Chemical Landmark. For its 50 years of innovation, and for its long-term and on-going participation in National Chemistry Week and its devoted focus on a hands-on science and chemical education for children, the New York Hall of Science won the New York Historic Chemical Landmark Award. Dr. Pamela Kerrigan, the 2014 New York Section Chair, and Dr. John Sharkey, the Chair of History Committee of the New York Section, presented the award to Ms. Erin Thelen, the Manager of the New York Hall of Science.

During the day, children, parents, and the presenters alike obviously enjoyed their time spent together exploring sweet science and colorful chemistry. As the volunteers closed down the program, all were pleased with the program and many agreed – a year in advance – that they would be back for National Chemistry Week 2015!

We would like to extend our warmest thanks to our volunteers as well as the sponsoring colleges, universities, companies and non-profit organizations including: New York Hall of Science, Pepsi, HGS-Maruzen, United States Merchant Marine Academy, American Institute of Chemical Engineers, CUNY – Queensborough Community College, Columbia University, St. Joseph's College-New York, Pace University, Aldelphi University, International Flavors & Fragrances, Inc., Stony Brook University, St. John's University, New York University, New York Mets, The College of Mount Saint Vincent, and Hofstra University. Their enthusiastic support, their strong leadership and community spirit, made the continued success of this largest chemical hands-on public educational event in the area possible.



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A youngster enjoys the challenge of making a marshmallow to sink in water during the New York Local Section's event at the New York Hall of Science. Photo by Sharon Lall-Ramnarine.



All who participate in the New York Local Section's event enjoy making their own beverages of their favorite flavors and colors.



Ms. Erin Wasserman shows the winning poem and illustration of the 2014 NCW illustrated Poem Contest. The Contest was for students in K-8th grade.

*(Photo by JaimeLee Rizzo)*



The student volunteers of the New York Local Section show off the sweet chemistry of beverages.

A young visitor learns about the chemistry of sucrose and sucralose during the New York Local Section's event at the New York Hall of Science.



**More Photos on next page**

*(Photos by Ping Furlan, Neil Jespersen, and JaimeLee Rizzo)*



The New York Local Section dedicates the New York Hall of Science as a New York Historic Chemical Landmark. Dr. Pamela Kerrigan, the 2014 New York Section Chair, and Dr. John Sharkey, the Chair of History Committee of the New York Section, presented the award to Ms. Erin Thelen, the Public Manager of the New York Hall of Science.

## NATIONAL CHEMISTRY WEEK – NEW YORK SECTION



### Others

#### ASSOCIATION OF CONSULTING CHEMISTS & CHEMICAL ENGINEERS

ACCCE, ([www.chemconsult.org](http://www.chemconsult.org)) will host a dinner and technical presentation.

##### Chemical Reactor Design in Petrochemicals

*Speaker:* Dr. Vijay Bhise

Several issues in chemical reactor design will be addressed.

Dr. Bhise has held a number of positions, including Director of Catalyst Research, General Manager Ethylene Oxide, Vice President – Technology and Catalyst Opera-

tions, Manager, Economic Evaluation, etc. Worked mainly with Halcon SD group, and later with Scientific Design, which was a subsidiary of Halcon.

**Date:** Wednesday, December 10, 2014  
**Originally scheduled for Dec. 11**

**Times:** Council meeting 5:00 PM  
Dinner and talk 6:00 PM

**Place:** Top Hat Tavern  
Grand Summit Hotel  
Springfield Ave. near Morris Ave.  
Summit, NJ

**Cost:** The registration fee is \$35 for members and non-members.

Please contact Dr. John Bonacci at ACC&CE: email: [accce@chemconsult.org](mailto:accce@chemconsult.org), phone or fax: (908) 464-3182 or regular mail: P.O. Box 902, Murray Hill, NJ 07974-0902. Please register **by January 27**.

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## Call for Nominations

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### WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD 2015

The Westchester Chemical Society is accepting nominations for the "WCS Distinguished Scientist Award 2015". Scientists who live or work in Westchester or the Bronx qualify. Please send a cover letter stating why your nominee should receive the award along with the nominee's resume by **January 16, 2015** to:

Dr. Paul Dillon at  
[PaulWDillon2@hotmail.com](mailto:PaulWDillon2@hotmail.com) or  
 67 Matthes Road  
 Briarcliff Manor, NY 10510

or to:

Dr. Peter Corfield at  
[pwrc@earthlink.com](mailto:pwrc@earthlink.com)

The Distinguished Scientist talk, presentation and dinner, along with the annual student awards will be early May, 2015 at Pace University, Pleasantville, NY.

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## Call for Papers

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### THE 63rd ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

*Sponsored by the Student Activities Committee of the New York Section of the American Chemical Society*

The symposium provides an excellent opportunity for undergraduate chemistry students in the NY metropolitan area to present the results of their research. The program includes a keynote address by Dr. JaimeLee Rizzo, Department of Chemistry and Physical Sciences, Pace University, presentation of student papers, poster presentation, followed by a luncheon.

To:

1. Submit an abstract on-line (Please follow the abstract template form and included instructions)
2. Print a flyer for posting - Click "Download Flyer" in the blue frame
3. Obtain directions to Queensborough Community College

Go To: <http://www.newyorkacs.org/meetings/urs/urs.php>

### SIGNIFICANT DATES FOR 63rd URS

Abstract submission and online registration opens - February 2, 2015

Deadline for abstract submission - March 20, 2015

Notification of the abstract acceptance – April 6, 2015

Deadline for early registration – April 10, 2015

**Date: Saturday, May 9, 2015**

**Place:** Queensborough Community College, Queens, NY

**Cost:** FREE Registration for student members of the National ACS, faculty mentors who register in advance and sponsors. For non-ACS members and guests, the registration is \$35 in advance. All on-site registration is \$45 for faculty, staff and guests. Students can obtain a discounted 1-yr membership to the ACS for \$25 by visiting <http://undergrad.acs.org/>

Checks for the registration fee should be made out to: "NY ACS URS" and sent to:

Prof. Justyna Widera, Adelphi University, Department of Chemistry, 1 South Avenue, Garden City, NY 11530

If you have any questions please contact: [nyacsurs2015@gmail.com](mailto:nyacsurs2015@gmail.com)

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## Call for Volunteers

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### 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@mounstaintvincent.edu](mailto:Pamela.kerrigan@mounstaintvincent.edu)  
 or  
[Daniel.amarante@mounstaintvincent.edu](mailto:Daniel.amarante@mounstaintvincent.edu)

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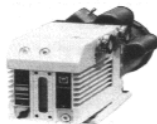
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