

THE Indicator

JANUARY 2011

Vol. 92 • No. 1

ISSN0019-6924



Dr. Jiwen Chen
2011 North Jersey Section Chair

NY Sectionwide Conference, Jan. 15

See page 11.

RECYCLE THIS PAPER

PERIODICALS POSTAGE

www.theindicator.org
www.njacs.org www.newyorkacs.org

A good vacuum system

needs a great vacuum trap:

Posi-Trap positive flow
vacuum inlet traps!

- No "blow-by"... **ever!**
- Filter elements matched to **your** application.
- **Easy** cleaning and changing.

When you want the best, you want MV Products.



PRODUCTS

A Division of Mass-Vac, Inc.

247 Rangeway Road ■ PO Box 359 ■ North Billerica, MA 01862
978 667 2393 Fax 978 671 0014 sales@massvac.com www.massvac.com

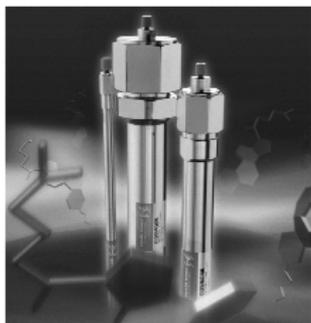
Nacalai USA

Innovations for Life Sciences.



COSMOSIL HPLC Columns

- Since 1979



New Phases Now Available!

HILIC (Triazole bonded)

- Unique stationary phase for highly polar compounds

piNAP (Naphthylethyl group bonded)

- Enhanced π - π interactions for unsaturated compounds

Cholester (Cholesteryl group bonded)

- New stationary phase for structural isomers

Nacalai USA, Inc. 6640 Lusk Blvd. Suite A200 San Diego CA 92121

Tel: 858-404-0403 Email: info@nacalaiusa.com

www.nacalaiusa.com

THE INDICATOR

Manager / Editor - LINDA ATKINS
1 Milbark Court West, Homosassa, FL 34446
973-981-4383; Fax 352-503-7613
linatkins@tampabay.rr.com

Advertising Manager - VINCENT GALE
MBO Services
PO Box 1150, Marshfield, MA 02050-1150
781-837-0424

vincegale@mbo-services.net

INDICATOR COMMITTEE**Chair, DR. LES MCQUIRE**

17 Crown Drive, Warren, NJ 07059
908-334-5473, Les@LesMcQuire.org

New York Section Rep.**DR. NEIL JESPERSEN**

Chemistry Dept., St. John's University
8000 Utopia Parkway, Jamaica, NY 11439
718-990-5221, jespersn@stjohns.edu

North Jersey Section Rep.**DR. ANITA BRANDOLINI**

TAS, Ramapo College, 505 Ramapo Valley Rd.,
Mahwah, NJ 07430 • 201-684-7753

abrandol@ramapo.edu

Web Masters

NY Section - DR. BRIAN GIBNEY

postmaster@newyorkacs.org

NoJ Section - PAUL TUKEY

tukey@verizon.net

NEW YORK SECTION /

<http://newyorkacs.org>

Chair, DR. HIROKO I. KARAN

Department of Physical, Environmental and
Computer Sciences, Medgar Evers College, CUNY
1650 Bedford Avenue, Brooklyn, NY 11225
718-270-5168; Fax 718-270-6197

hiroko@mec.cuny.edu

Chair-Elect, DR. JAIMELEE IOLANI RIZZO

Department of Chemistry and Physical Science
Pace University, 1 Pace Plaza, New York, NY 10038
212 346 1761 • 212 346 1256 fax

jrizzo@pace.edu

Secretary, DR. MARGARET MANDZIUK

16 East 8th Street, #4R, New York, NY 10003
212-979-6063

margaret.mandziuk@gmail.com

Section Office

St. John's University, Chemistry Dept.
8000 Utopia Parkway, Jamaica, NY 11439
516-883-7510; Fax 516-883-4003

njesper1@optonline.net

NORTH JERSEY SECTION

<http://www.njacs.org>

Chair, DR. JIWEN CHEN

Bristol-Myers Squibb Company, 3B 0.01, 311
Pennington-Rocky Hill Road, Pennington, NJ 08534
609-818-6319

jiwen.chen@yahoo.com

Chair-Elect, DR. AMBER CHARLEBOIS

Fairleigh Dickinson University
285 Madison Ave., M-SB1-01, Madison, NJ 07940
973-810-3779

charleb@fd.edu

Secretary, BETTYANN HOWSON

49 Hillside Avenue, Madison, NJ 07940-2612
973-822-2575

chemphun@optonline.net

Section Office

4 Cameron Road, Piscataway, NJ 08854
732-463-7271; NJACSoffice@aol.com

THE Indicator

The monthly newsletter of the New York & North Jersey Sections of the American Chemical Society. Published jointly by the two sections.

CONTENTS

Advertisers Index	24
Call for Nominations	22
Call for Papers	22
National Chemistry Week Reports ..	9, 16
New York Certificate of Incorporation	20-21
New York Meetings	12-14
New York Section-Wide Conference ..	11
North Jersey Section Chair's Message ..	7
Nichols Symposium & Banquet	18-19
North Jersey Meetings	8
Others	22
Press Releases	23
Professional/Product Directory	24

EDITORIAL DEADLINES

February	December 15
March	January 15, 2011
April	February 15
May	March 15
June	April 15
September	July 15
October	August 15
November	September 15
December	October 15
January 2012	November 15, 2011

Visit Us

www.TheIndicator.org

The Indicator (ISSN0019-6924) is published monthly except July and August by the New York and North Jersey Sections of the American Chemical Society, Office of Publication, 1 Milbark Court West, Homosassa, FL 34446. **Periodicals Postage Paid at Homosassa, Florida and at additional mailing offices.**

POSTMASTER: Send address changes to American Chemical Society, Department of Member and Subscriber Services, *THE INDICATOR*, P.O. Box 3337, Columbus, OH 43210, or e-mail: service@acs.org.

All views expressed are those of the editor and contributors and do not necessarily represent the official position of the New York and North Jersey Sections of the American Chemical Society unless so stated. **Subscription price included in dues paid by New York and North Jersey Section members. Distributed electronically to members through the website www.TheIndicator.org and monthly emailings. Non-members are invited to read it online. Members should register their email addresses at www.acs.org/update.**

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

January Calendar

NEW YORK SECTION

Thursday, January 6, 2011

Chemical Marketing & Economics Group
See page 12.

Thursday-Friday, January 13-14, 2011

Long Island Subsection
See page 13.

Tuesday, January 18, 2011

MetroWomen Chemists Committee
See page 8.

Friday, January 21, 2011

High School Teachers Topical Group
See pages 13.

Saturday, January 15, 2011

NY Sectionwide Conference
See page 11.

Tuesday, January 25, 2011

Biochemical Topical Group
See page 14.

NORTH JERSEY SECTION

Thursday, January 6, 2011

Careers in Transition
See page 8.

Thursday, January 6, 2011

NoJ Teacher Affiliates Executive Meeting
See page 8.

Tuesday, January 18, 2011

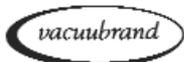
MetroWomen Chemists Committee
See page 8.

Monday, January 31, 2011

NoJ Executive Committee Meeting
See page 8.

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

Deadline for items to be included in the March 2011 issue of *The Indicator* is January 15, 2011.



Five Decades of Vacuum Innovation

The Vacuum Solution for Lab Renovations

VACUU • LAN®
local vacuum networks

The convenience of central vacuum...

- one pump supports up to 8 vacuum workstations
- conserves precious bench space
- whisper-quiet without sound-proofing

The performance of dedicated pumps!

- vacuum to 1.5 Torr;
optional electronic control
- minimizes interference between workstations



VACUUBRAND, INC.

Tel 860-767-5341

Cust. Service 888-882-6730

www.vacuubrand.com

info@vacuubrand.net

THIS MONTH IN CHEMICAL HISTORY

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

Roger Adams, one of the leading American chemists of his time, and an active and influential member of the American Chemical Society, was born on January 2, 1889, in Boston, Massachusetts. He went to school in Boston and Cambridge, and showed an early interest in chemistry. Enrolling at Harvard at age 17 he was at first more interested in foreign travel than study, and worked his passage to England one summer aboard a cattle boat. He received his A. B. at age twenty, and his A. M. the next year, when he began research under the direction of Professors Torrey and Richards (the latter being the first American Nobel Laureate in chemistry). Adams' research was in organic chemistry, which remained his central focus throughout his long career. He received his Harvard Ph. D. in 1912, and was awarded a fellowship for study in Europe. He worked in Berlin with Otto Diels and then in Dahlem with Richard Willstätter, and was impressed by the excellent laboratory and library facilities available in Germany.

Roger Adams began his long academic career with three years as an instructor at Harvard. He was invited to join the faculty of the University of Illinois at Urbana in 1916, and rose rapidly through the ranks there, being promoted to Professor in 1919, and then succeeding W. A. Noyes as Department Head in 1926, and staying in that position until 1954. He directed the research of nearly two hundred Ph. D. candidates and many more post-doctoral associates and research fellows over a period of forty years, from 1918 until 1958. It would be hard to overstate the significance of his contributions to organic chemistry during this era. This brief account of Adams' career can only touch on a few highlights of the more than four hundred research articles published by the Adams' group.

In the area of synthetic methods, in addition to adding to the methodology of the Friedel-Crafts reaction, and developing new methods for making anthraquinones, perhaps Adams' best known contribution was the introduction of a novel and highly reactive platinum catalyst for hydrogenation—the Adams' catalyst. The mythology of its discovery is that allegedly a student preparing platinum black on a 30 gram scale broke the dish, and the platinum suspension spilled on to the bench top. Dr. Adams, a thrifty New Englander, had the mixture scraped up and treated with aqua regia. To burn away the last vestiges of the wooden bench top he suggested fusion with sodium nitrate. And thus was born the previously unknown, and still widely used, brown platinum oxide catalyst.

Adams was a major contributor to natural products chemistry synthesizing natural quinones; characterizing the constituents of chaulmoogra oil, long used in the treatment of leprosy; elucidating the structure of gossypol, a toxic material found in cottonseed, and consequently of concern to marketers of cottonseed oil; identifying and synthesizing constituents of marijuana (at the request of the Federal Narcotics Bureau); and working out the structures and syntheses of many alkaloids toxic to grazing farm animals. There is a strong sense of chemistry in the public interest in this phase of Adams' work. Other extended areas of research interest to Adams included the study of stereochemistry in substituted biphenyls and their heterocyclic analogs, and the introduction of new resolving agents.

Perhaps of equal importance to organic chemistry was Adams' contributions to its literature. In 1921 a founding group of chemists including Adams decided that an authoritative series describing preparations of organic compounds that were reliable, and had been checked by an independent researcher, would be really valuable. And so *Organic Syntheses* was born, a series of volumes prized by every succeeding generation of chemists. *Organic Reactions* followed later; Adams was the Editor-in-Chief of this series for nineteen years. The income from these two series provides the highly respected Roger Adams Award in Organic Chemistry, given every second year by the ACS. Its first recipient, in 1959, was Derek Barton, later a Nobel Laureate in chemistry.

Roger Adams was more than just an academic chemist; he was also a dedicated public servant. In 1917 he went to Washington D. C. to serve as a Major in the Chemical Warfare Group; he developed a new arsenic-centered sternerator now known as Adamsite. Between the wars he became Chair of the Organic Chemistry Division of ACS in 1920; a member of the Society's Board of Directors from 1930 - 35, and from 1940 - 50; and President of the ACS in 1935. He was also on President Roosevelt's Science Advisory Board in 1934 - 35, and during World War II was a member of the National Defense Research Committee. After the war, as a Scientific Adviser in Germany he helped to get the publication of both Beilstein and Gmelin re-started, and went to Japan in 1947 to advise on the "democratization" of Japanese science.

During his lifetime Roger Adams reaped many honors: honorary doctorates from Harvard, Illinois and many other universities; the Nichols, Willard Gibbs, and Priestley medals of the ACS; the National Medal of Science; and honorary memberships of many foreign scientific societies. Issue No.1 of Volume 91 of *JACS*, which carries the date January 1, 1969, included an extended tribute to acknowledge his 80th birthday. He died at Champaign, Illinois, on July 6, 1971. Ten years later, in 1981, the American Chemical Society honored this great organic chemist by publishing D. S. Tarbell and A. T. Tarbe's excellent biography, titled simply "Roger Adams Scientist and Statesman".

JANUARY HISTORICAL EVENTS IN CHEMISTRY

By Leopold May, The Catholic University of America, Washington, DC

January 2, 1889

Roger Adams, a researcher in organic chemical synthesis, was born on this date. He directed 184 doctoral theses.

January 4, 1891

Henry H. Dow prepared bromine from brine on this date.

January 7, 1794

Eihardt Mitscherlich who did research on crystalline structure, catalysis, and benzene and its derivatives, was born on this date. He also discovered isomorphism.

January 9, 1868

Sören P. L. Sörensen, who was born on this date, is known as the "Father of pH". He did research on proteins, amino acids, and enzymes.

January 10, 1923

Chemical and Engineering News was started on this day as the bimonthly News Edition of *Industrial and Engineering News*. It was changed to CEN in 1942 and became weekly on January 6, 1947.

January 11, 1875

Frederick M. Becket, an inventor in electrochemistry and electrometallurgy, was born on this date. He received more than one hundred patents covering a wide range of electric furnace and chemical products, notably ferro-alloys, calcium carbide, and special chromium steels.

January 12, 1912

Konrad E. Bloch, who was born on this date, was a researcher on cholesterol and fatty acid metabolism. He shared the Nobel Prize in Physiology or Medicine in 1964 with Feodor Lynen for their discoveries concerning the mechanism and regulation of the cholesterol and fatty acid metabolism.

January 13, 1780

Pierre J. Robiquet, who discovered asparagine with Nicolas-Louis Vauquelin, was born on this date. He also measured the codeine content of opium.

January 14, 1851

Ludwig Claisen, who developed reactions such as the condensation of esters and the rearrangement of allyl vinyl ethers, was born on this day.

January 15, 1784

Henry Cavendish presented the quantitative composition of water before Royal Society on this date.

January 17, 1706

Benjamin Franklin, who was born on this date, was a researcher in electricity; an inventor, a statesman, and described marsh gas to Priestley.

January 18, 1861

Hans Goldschmidt, who discovered the alumino thermite process (Goldschmidt Process) in 1893 and patented it in 1895, was born on this date. He was interested in producing very pure metals by avoiding the use of carbon in smelting but realized its value in welding.

January 22, 1936

Alan J. Heeger, who was born on this date, shared the Nobel Prize in Chemistry in 2000 with Alan G. MacDiarmid and Hidaki Shirakawa for their discovery and development of conductive polymers.

January 23, 1929

John C. Polanyi shared the Nobel Prize in Chemistry with Dudley R. Herschbach and Yuan T. Lee for their contributions concerning the dynamics of chemical elementary processes. He was born on this date and is a researcher using infrared chemiluminescence to follow excited reaction products.

January 26, 1881

Claude S. Hudson, who did research in the chemistry of sugars, was born on this date.

January 27, 1865

August F. Kekulé presented his benzene structure to Société Chimique, Paris on his date.

January 28, 1843

Henry C. Bolton, who was a writer and bibliographer of the history of chemistry, was born on this date. He studied the action of organic acids on minerals.

January 31, 1881

Irving Langmuir, who was born on this day, did research on surface chemistry for which he received the Nobel Prize in 1932) for his discoveries and investigations in surface chemistry. He introduced gas-filled tungsten lamps and the use of atomic hydrogen blowpipe for welding. He and Gilbert N. Lewis evolved the electronic theory.

Additional historical events can be found at Dr. May's website, faculty.cua.edu/may/history.htm.

2011 North Jersey Section Chair's Message

Dear Fellow Members of the NJ ACS,

Greetings! I am truly honored to serve as the Chair of the North Jersey Section (NJ ACS) this year. I feel extremely fortunate to have worked with a number of officers and volunteers who have made our Section one of the most active within the ACS. It is truly remarkable that throughout the years NJ ACS has been carried forward solely by volunteers: a group of dedicated and highly energized individuals who have sacrificed their family time to serve the organization. Without them, none of the many wonderful activities organized by the Section would have occurred.

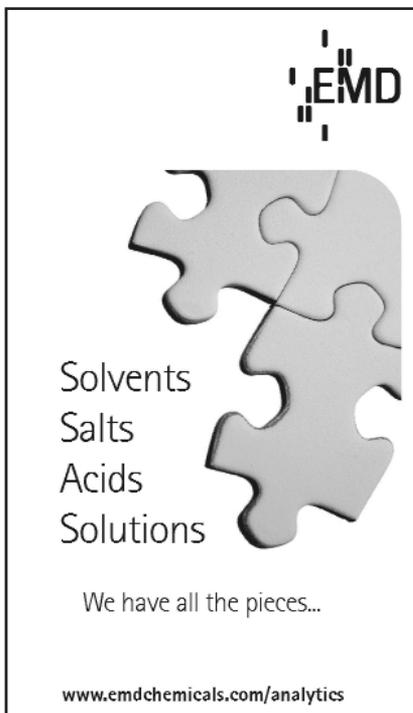
The year 2011 is designated as the International Year of Chemistry, a joint initiative between the IUPAC and UNESCO. It celebrates the achievements of chemistry and its contributions to the well-being of mankind. For more than a decade, the NJ ACS has had several extraordinary public outreach programs. The National Chemistry Week is an annual event that takes place at the Liberty Science Center each October, where families in our communities enjoy hands-on science activities and students from grades K to 12 participate in poster contests. Project SEED, on the other hand, is designed to encourage economically disadvantaged high school students to pursue careers in chemical sciences. In addition, NJ ACS sponsors the biennial Sister Marian José Smith Award for Excellence in Education to recognize a college professor for inspiring students and launching them on successful careers in chemistry. Furthermore, the Section has been participating in the Chemistry Olympiad. In the last two years, students from our Section won Gold and Silver medals in this prestigious competition.

We have an exciting year ahead of us. In addition to the regular topical group meetings, several NJ ACS events may be of interest to you. In March, the Chemistry as a Life Science Symposium has an

exciting lineup of speakers. In June, the National Organic Chemistry Symposium will be held at Princeton University with several Section members as key organizers. In November, the Baekeland Medal will be presented to an American Chemist under the age of 40 at the Baekeland Symposium where NJ ACS members come together and enjoy cutting edge science and an opportunity to interact with leading scientists.

Thank you again for supporting the Section. I look forward to meeting you in one of the NJ ACS events. Should you have any comments or suggestions, please do not hesitate to drop me a line at jchen@njacs.org.

Jiwen Chen, Ph.D.
Chair, North Jersey Section
jchen@njacs.org



The advertisement features a graphic of several interlocking puzzle pieces in shades of gray. In the top right corner, the EMD logo is displayed, consisting of the letters 'EMD' in a bold, sans-serif font with vertical bars of varying heights to the left of each letter. Below the puzzle pieces, a list of chemical categories is presented: Solvents, Salts, Acids, and Solutions. At the bottom of the advertisement, the slogan 'We have all the pieces...' is written in a simple, clean font, followed by the website address www.emdchemicals.com/analytcs.

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

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

Date: Monday, January 31, 2011

Time: 6:00 PM

Place: Rutgers University
Piscataway, NJ 08854

Cost: \$5.00 - pizza dinner

Reservations: call (732) 463-7271 or email njacsoffice@aol.com prior to **Wednesday, January 26, 2011**.



CAREERS IN TRANSITION GROUP

Job Hunting??

Are you aware that the North Jersey Section holds monthly meetings at Fairleigh Dickinson University in Madison to help ACS members? Topics covered at these cost-free workshops are:

- Latest techniques in resume preparation
- Ways for improving a resume
- Answers to frequently asked interview question and
- Conducting an effective job search

The next meeting for the Careers In Transition Group will be held **Thursday, January 6, 2011**, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact billherits@earthlink.net, if you plan on attending this meeting.



NJACS TEACHER AFFILIATES

Executive Committee Meeting

Meeting dates are subject to change due to school closings or inclement weather.

Date: Thursday, January 6, 2011

Time: 4:30 PM - 6:30 PM

Place: College of St. Elizabeth
Faculty Lounge Study, 2nd Floor
of Mahoney Library, Madison, NJ

Contact: Mita Chaki

mchaki@franklinboe.org

METRO WOMEN CHEMISTS COMMITTEE

Breakfast for Dinner

Metro Women's Chemist Committee will have our first event of the year - Breakfast for Dinner. We will be joining women from around the world as participants in "Women Sharing a Chemical Moment in Time" as part of the International Year of Chemistry Celebration. The goal of the activity is for women to get together for breakfast and to network. We have chosen to have breakfast for dinner to better accommodate work schedules. So far there is confirmed participation from women chemist groups in Australia, France, Netherlands, Poland, Sweden, Czech Republic, and the UK.

In addition to networking, the aim is to celebrate the pivotal role of Marie Curie in chemistry. If you would like to attend please contact Sarah Carberry at sbolton@ramapo.edu.

Date: Tuesday, January 18, 2011

Time: 6:00 PM

Place: International House of Pancakes
1129 Broad Street
Bloomfield, NJ

More information about the international event can be found at:

<http://www.chemistry2011.org/about-iy-c/news/women-chemical-moment/>

More information about the MWCC can be found at our website:

<http://www.njacs.org/metrowomen.html>



NoJ 2012 ELECTION RESULTS

The final results are:

Chair-Elect

Amber Charlebois	390
Landon Greene	154

Secretary

Bettyann Howson	uncontested
-----------------	-------------

Treasurer

Jacqueline Erickson	uncontested
---------------------	-------------

Councilors (4)

Les McQuire	321
Anita Brandolini	292
Jeannette Brown	282
Bill Suits	264

Alternate Councilors (4)

Kelly George	243
Bettyann Howson	211
Landon Greene	203
Ambarish Singh	181
Mariann Neverovitch	140

NORTH JERSEY CHEM EXPO

Undergraduate Chapter Demonstration Competition

The Executive Committee of the North Jersey Section of the American Chemical Society was very pleased with the undergraduate participation during the Chem Expo held at the Liberty Science Center on Saturday, October 23rd.

A total of four undergraduate chapters presented hands on demonstrations to the many excited young "future" scientists in attendance. The undergrad groups present included Kean University who was well represented with six students and three advisers. They assisted the children in making their very own homemade BLOB. Each participant was welcome to take a sample of the BLOB home with them. The Ramapo group showed the public how to make shrinky dinks and let them touch/play with a sample of oobleck. Each child was then able to take their shrinky dink home. Ramapo had six students who were accompanied by their two advisers. The College of St. Elizabeth's had five students and two advisers who made fake blood (which looked

and felt very real, YUCK) and then showed how cloud formation works just like they do in the movies. Children we welcome to take a sample of the fake blood home. Finally, Fairleigh Dickinson University with eleven students and one of their advisers who demonstrated how a glass beaker can disappear when submerged in oil (same refractive index) and that at a reduced pressure an alcohol will appear to boil with just the touch of a hand.

All of these chapters did such a wonderful job demystifying chemistry and Getting Behind the Scenes with Chemistry! The section thanks each section very much for their participation in this year's Celebration of Mole Day and National Chemistry Week!

The section has awarded each of the four chapters a \$100 prize for their participation in this year's competition.

Congratulations to all of our Undergraduate Students and Chemistry Chapter Advisers!!!!!!

NJACS looks forward to the continuation of this competition each year at the Chem Expo!



Pictured on the top is the Fairleigh Dickinson University Club (left) and the Ramapo College Crew (right), and on the bottom Kean University Group (left) with The College of St. Elizabeth students in action (right).

(Photos courtesy of Amber Charlebois)

RISE AT DREW UNIVERSITY

Celebrating 30 Years of Service

RISE is an acronym for The Research Institute for Scientists Emeriti at Drew University in Madison, NJ. We are a group of nine scientists who have retired from Industry and now mentor Drew undergraduate students in carrying out research projects. Often, the research project becomes a senior thesis, enabling the student to graduate "with honors". Most of our students then continue studying science, either in graduate or medical school. RISE is a unique program, the only one of its kind in the country, and possibly the world. RISE Fellows represent varying disciplines of science. Current RISE Fellows include an analytical chemist, two medicinal chemists, two biochemists, two microbiologists, a mathematician and a statistician. A RISE Associate, a new category created this year, contributes to the program in other specific ways.

Last semester, RISE Fellows collaborated in a seminar program for 13 first-year honor science students. Each student paired with a RISE Fellow, selected a subject of interest, explored the literature, wrote a paper and presented their findings to the class, leading the other students in discussion.

RISE celebrated its 30th Anniversary October 11th with a Symposium featuring four former students who have followed diverse career paths after leaving Drew. One of these students, Carmen Drahl, Class of 2002, received a Ph.D. in chemistry from Princeton and is now an associate editor for *Chemical & Engineering News*.

Derrick Wood, Class of 2004, teaches science at Conestoga High School. He is the head coach of Conestoga's Science Olympiad team, which finished in the top five in the state for the last five years. Derrick was honored recently with the Christopher Columbus Foundation Life Sciences Educator Award.

RISE sponsors a one-week "ResMed" course

given at Drew University each June for the past 25 years. The course is directed to chemists and biologists who have basic science backgrounds and are now interested in translation to drug discovery. Further information about RISE and on the up-coming "ResMed" course may be obtained at: www.drew.edu/RISE and www.drew.edu/depts/resmed.aspx.



METRO WOMEN CHEMISTS COMMITTEE

On Tuesday November 16th, about a dozen women of the Metro Women Chemists Committee gathered for a fabulous networking dinner at the Mikado23 restaurant in Wayne. This event was an informal gathering for women to sit down and enjoy some scrumptious food and awesome desserts with other local women chemists. There was no formal presentation given during the November meeting, so that a more detailed and intimate discussion could occur. It was very nice to sit and chat with other women who could understand the concerns and difficulties I face as a working mother.

At each event we look forward to seeing new faces as the MWCC continues to grow and flourish! I am very excited about the committee in general and the direction we are headed. The evening ended with some serious brainstorming for future meetings which may or may not include the committee meeting at a Martial Arts facility to get some frustrations out by kicking and punching with lots of Ki-ais, followed by a nice dinner at some nearby location or maybe instead, having a traditional recipe exchange or rather chemistry demonstration exchange for all members to use at home with the children in their lives.

Amber Charlebois

See our January meeting notice on page 8.



(Photos courtesy of Amber Charlebois)



New York Section-Wide Conference

INTERNATIONAL YEAR OF CHEMISTRY

Date: Saturday, January 15, 2011

Times: 9:30 AM – 1:00 PM

Place: St. John's University, 8000 Utopia Parkway, Jamaica, NY
(Please visit <http://www.NewYorkACS.org> for the meeting venue.)

Cost: Free to all

PROGRAM

- 9:30 AM **Arrival and Refreshments**
- 10:00 AM **Greetings from the 2011 Chair of the ACS New York Section.** Dr. Hiroko I. Karan
- 10:10 AM **Award Presentations.**
- Service Plaque and Pin to the 2011 New York Section Chair Mr. Frank R. Romano
New York Section Outstanding Service Award for 2010 Dr. James W. Canary
Nichols Foundation H.S. Chemistry Teacher Award for 2010 Ms. Kay Sirianni
Brooklyn Technical High School
- 10:30 AM **Report from the 2010 Elections Nominating Committee.** Dr. JaimeLee I. Rizzo,
(Presentation of Candidates) 2011 Chair-elect of the ACS New York Section
- 10:45 AM **Keynote Speaker:** **Dr. Etsuko Fujita**
"Photochemical CO₂ Reduction: Current Status and Future Prospects"
Brookhaven National Laboratory

Etsuko Fujita is a Senior Chemist and the group leader of Artificial Synthesis Group in the Chemistry Department at Brookhaven National Laboratory, and the recipient of the 2008 BNL Science and Technology Award for outstanding research in solar fuels generation. She received a B.S. in Chemistry from Ochanomizu University, Tokyo and a Ph.D. in Chemistry from the Georgia Institute of Technology. She is an advisory board member for several solar energy conversion projects including the NSF funded the Center for Chemical Innovation Project "Powering the Planet" and the Japan Science and Technology, PRESTO (i.e., Precursory Research for Embryonic Science and Technology) Project entitled "Light Energy. and Chemical Conversion".

Abstract: Solar energy is a more abundant source of energy than any other source available on Earth. Many researchers consider the solar generation of fuels (stored in the form of chemical bonds such as hydrogen from water and methanol from CO₂) as the best and essential solution for clean energy, yet sunlight-driven water splitting or CO₂ reduction to methanol/methane remains a formidable problem. Researchers in this field have achieved the efficient coupling of light absorption and charge separation with dark catalytic reactions to produce CO and formate under a variety of conditions. Current status and future prospects will be discussed. The research carried out at Brookhaven National Laboratory was supported under contract DE-AC02-98CH10886 with the U.S. Department of Energy and supported by its Division of Chemical Sciences, Geosciences, & Biosciences, Office of Basic Energy Sciences.

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

12:00 PM **ACS, New York Section Committee Planning Sessions for 2011.**

Educational Activities: (Chemagination, Chemical Education, Continuing Education, High School Olympiad, National Chemistry Week, Nichols Foundation Teacher Award, Project Seed, Student Membership)

Chair: Dr. Jill K. Rehmann

Member Affairs: (Awards, Employment and Professional Relations, History of the New York Section, *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

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

Directions are at: <http://www.stjohns.edu/about/general/directions/directions/queens>

New York Meetings

www.newyorkacs.org

NEW YORK SECTION BOARD MEETING DATES FOR 2011

The dates for the Board Meetings of the ACS New York Section for 2011 were chosen and approved at the June 2010 Board Meeting. The meetings are open meetings; all are welcome. If non board members would like to attend the meeting, please let the New York Section office know by emailing Mrs. Marilyn Jespersen at njesper1@optonline.net or calling the office at (516) 883-7510. Refreshments are served at 6:00 PM and the meeting is held at 6:45 PM.

The 2011 Board Meetings will be held on the following Fridays in the library of St. John's University, 8000 Utopia Parkway, Jamaica, NY. Dr. Hiroko I. Karan will chair the meetings.

Friday, February 11, 2011
Friday, April 8, 2011
Friday, June 3, 2011
Friday, September 23, 2011
Friday, November 18, 2011

Also, please mark your calendars with the dates of the two major New York Section events in 2011. More information will be posted in future issues of *The Indicator* and on the New York Section website at <http://www.NewYorkACS.org>.

Saturday, January 15, 2011
Section-Wide Conference

Friday, March 18, 2011
Nichols Symposium and Award Ceremony



CHEMICAL MARKETING & ECONOMICS GROUP

2011 Luncheons at Club Quarters
New York City

“Economic Review and Outlook”

Speaker: T. Kevin Swift
Chief Economist
American Chemistry Council

Date: Thursday, January 6, 2011

“Value-added Sustainability Best Practices: Life Cycle Analyses”

Speaker: Charlene Wall
North American Sustainability
Communications Manager
BASF

Date: Thursday, February 3, 2011
(Note change in topic and speaker)

“Green Chemistry: Outlook and Opportunities” (Panel Discussion)

Moderator: Doris de Guzman
Senior Editor
*ICIS Chemical Business and
ICIS Green Chemicals* blogger
and

Representatives from major
chemical companies and
start-ups involved in green
chemistry

Date: Thursday, March 3, 2011

• Save the Dates: **Thursday, April 7, 2011,**
Thursday, May 5, 2011, and **Thursday,**
June 2, 2011

Times: Networking: 11:15 AM
Lunch: 12:00 noon
Presentation (webcast): 1:00 PM
Place: Midtown Executive Club at
Club Quarters
40 West 45th Street
(between Fifth & Sixth Avenues)
New York, NY
Cost: Luncheon \$85* for Members and
\$95* for Non-Members.
(Members include Paid Members
of CM&E or NYSCC or NYSSA.)

Save Now - Early-Bird rates: \$65* for
Members and \$75* for Non-Members who
pay via credit card by 11 AM on the Monday
before the event. Reserve Now.

* Includes automatic renewal or new membership fees being applied at the special rate of \$20 for 2011. Normally \$50 for non-ACS members.

Webcast Fees: \$30 for all. \$10 discount if you reserve by the Monday before the event, 4 PM Eastern Time. This event will be available as a Webcast live (1:00 - 2:00 PM Eastern Time) and also as webcast recording for post-event viewing in the case of those traveling or with scheduling conflicts.

LONG ISLAND SUBSECTION

6th Nassau-Argonne International Mössbauer Symposium

This conference traditionally brings scientists from North America together, but it is open to international participants. This year's meeting will be dedicated to Dr. Gopal Shenoy of Argonne National Laboratory on his 70th birthday. He will be the guest of honor at the meeting.

Mössbauer Spectroscopy is now a mature analytical tool used by many different disciplines including chemistry, physics, biology, geology, mineralogy, soil science, materials science and archeology. Since the discovery of the technique in 1958, and the ensuing Nobel Prize to Rudolf Mössbauer in 1961, there are over 60 thousand publications. With the availability of five synchrotron radiation sources with dedicated beamlines to nuclear resonant scattering, several new "in-beam" facilities with radioactive beams to implant parent isotopes, and two spectrometers gathering data on the surface of the Mars, the technique has a lot that is new to offer to the scientific community at large. We are confident that with its unique depth and breadth, Mössbauer spectroscopy will continue to provide detailed understanding of physical, chemical, biological, and geological processes, earthly and extra-terrestrial alike. We plan to bring researchers from these diverse fields together for a 2-day symposium, and provide a chance to meet with each other in an informal setting.

For more information including program schedule, confirmed speakers, registration, and accommodations, please visit <http://mossbauer.ncc.edu/>.

Date: Thursday - Friday,
January 13 - 14, 2011

Place: Nassau Community College
Garden City, New York

Website: <http://mossbauer.ncc.edu/>

BOOST OUR RAVINGS

When you tell our advertisers that you saw their ads here they have more confidence in our newsletter's viability as an advertising medium. They advertise more. This supports our many activities.

METRO WOMEN CHEMISTS COMMITTEE

Date: Tuesday, January 18, 2011

(See under NoJ Meetings, pages 8 and 10)



HIGH SCHOOL TEACHERS TOPICAL GROUP

The World in InfraRed: Quantum Cascade Lasers and Applications

Speaker: Prof. Claire F. Gmachl
Dept of Electrical Engineering &
Director of MIRTHE
Princeton University
Princeton, NJ

Quantum Cascade (QC) lasers are a rapidly evolving mid-infrared, semiconductor laser technology based on intersubband transitions in multiple coupled quantum wells. The lasers' strengths are their wavelength tailorability, high performance and fascinating design potential. We will first give a brief introduction into QC lasers followed by a discussion of several recent highlights, such as the quest for high performance, especially high efficiency operation and the implementation of unconventional laser schemes, and applications, in particular our field campaign to participate in air quality measurements during the 2008 Beijing Olympics.

Date: Friday, January 21, 2011

Time: Social and Dinner — 5:45 PM

Place: M&G Pub (Murphy and Gonzales)
21 Waverly Place (at Green Street,
North-east corner)
New York, NY

No reservations required

Time: Meeting 7:15 PM

Place: New York University
Silver Center Room 207
32 Waverly Place (South-east
corner Washington Sq. East)
New York, NY

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 AM and 2 PM to verify that meeting is still on; 914-961-8882 for other info.

Note: Street parking is free after 6:00 PM. For those who prefer indoor attended parking, it is available at the Melro/Romar Garages. The entrance is on the west side of Broadway just south of 8th Street, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.

BIOCHEMICAL TOPICAL GROUP

New Mechanisms in the Resolution of Inflammation: Implications in Health and Disease

Organizers: Charles N. Serhan, PhD
Harvard University
Brigham & Women's Hospital
George Zavoico, PhD
MLV
Jennifer Henry, PhD
New York Academy of Sciences

Speakers: Per Gjorstrup, MD, PhD
Resolvix Pharmaceuticals
Karsten Gronert, PhD
University of California, Berkeley
Mauro Perretti, PhD
Queen Mary University
of London
Charles N. Serhan, PhD
Harvard University
Brigham & Women's Hospital
Ira Tabas, MD, PhD
Columbia University
Edward Thorp, PhD
Columbia University

Chronic inflammation contributes to the progression of many common diseases. This symposium reviews advances in treating chronic inflammatory diseases by promoting active resolution of inflammation instead of only blocking proinflammatory mediators.

Date: Tuesday January 25, 2011

Times: 1:00 PM–5:00 PM

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

Cost: This event is FREE for ACS and NYAS members. Please use the discount code SPN1-ACS1. Non-members may attend for a fee of \$30 per event; Student Non-members for \$15.

Reserve a seat on-line at:

www.nyas.org/events

For more information and to register for the event:

www.nyas.org/InflammationResolution

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

YOUNGER CHEMISTS COMMITTEE

The Inaugural NY ACS Younger Chemists Committee (YCC) Research Symposium

This symposium is an opportunity for undergraduate students, graduate students, post-docs, faculty members, and workers in government and industry in the NYC-metro area to meet fellow scientists and present research. We plan to have oral presentations, a keynote speaker and a poster session highlighting work in analytical chemistry, biochemistry/chemical biology, inorganic chemistry, organic chemistry, physical chemistry and theoretical chemistry. In addition, a networking reception will immediately follow the poster session.

We welcome abstract submissions on all topics of chemistry. The best abstracts will be selected as oral presentations. There will be prizes for the best posters also. To submit an abstract, please request a form at nyacsyccsymposium@gmail.com and fill it out by **March 1, 2011**.

Schedule:

1:00-1:15
Welcoming remarks from
Mr. Frank Romano, NY ACS Chair

1:15-2:00
Oral session I
Chaired by *Dr. David Cormode*

2:15-3:00
Oral session II
Chaired by *Ms. Elizabeth Onufrey*

3:15-4:15
Keynote speaker
Prof. Ron Breslow, Columbia University

4:15-4:30
Closing remarks from
Prof. Ruben Savitzky

4:30-6:00
Poster session

6:00-7:30
Networking reception

Date: Saturday, March 19, 2011

Place: The Cooper Union
41 Cooper Square
(between 6th and 7th Streets)
New York, NY

If you are interested in attending, please email nyacsyccsymposium@gmail.com by **March 15, 2011**.

59TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Sponsored by: The New York Chemistry Students' Association of the American Chemical Society's New York Section

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, presentation of student papers (15 minute talks to small groups), and a poster session to be followed by a luncheon.

Date: Saturday, May 7, 2011

Place: College of Mount Saint Vincent

For more information on the program, go to: http://newyorkacs.org/grp_students.html

If you have any questions please contact: Barbara Hillery, Co-chair
hilleryb@oldwestbury.edu

Joseph Serafin, Co-chair
SerafinJ@stjohns.edu

Justyna Widera, Co-chair
widera@adelphi.edu

NY Section, Student Affiliate Committee
Co-chairs Barbara Hillery, Joseph Serafin, and Justyna Widera.



EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

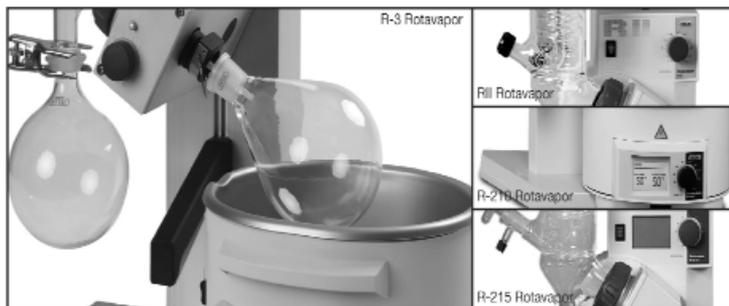
To Human Resources Departments in Industry and Academia

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 htaft@att.net.

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

A BUCHI for every budget!

BUCHI



The Rotavapor® R 3 provides a value priced high quality BUCHI alternative to unreliable imitation brands for cost-conscious customers. Now, there is no longer a reason to compromise quality, safety, or peace of mind when choosing a rotary evaporator – there is a Buchi for every budget!

BUCHI Corporation
1-877-MYBUCHI
or visit www.mybuchicom

Quality in your hands

NY SECTION'S NATIONAL CHEMISTRY WEEK CELEBRATION

The New York Section's 6th Annual National Chemistry Week Event was hosted by the New York Hall of Science on Saturday, October 23, 2010.

This year there were approximately 1000 visitors to this year's event and over 200 demonstrators from local universities, colleges, industry, and high schools! "Behind the Scenes with Chemistry" took place at the NYHOS, located on the old World's Fair grounds in Flushing, Queens. Dr. JaimeLee Rizzo of Pace University is the Project Leader and was assisted by Mr. Dave Sherman of PepsiCo.

The event was held in the Viscusi Gallery again this year as the Great Hall is under renovation. For the second year in a row, Interactive "Elemental Bingo", which took place in the auditorium and hosted by Dr. Jill

Rehmann and Mr. Dave Sherman, was enjoyed by all! Elemental Bingo winners won National Chemistry Week wallet-sized, laminated periodic tables.

The hands-on activities included: Fizzy Potion, Forensic Fingerprinting, Ghost Crystals, Magic Mushrooms, Fake Blood, Fake Snow, Atomic Trampoline, Polarized Lenses, Make Your Own Gatorade, Density Drink, Magic Blue Bottle, Elephant Toothpaste, Foam Column, Making Flubber, Colorful Lather Printing, Water into Wine, Floating Paper, Blue Bottle Chemistry, Chemistry of the Starts, Chemistry in the Cemetary, Shooting Stars, Polystyrene Shrinkers, Rocket Ship, Paper Chromatography, Water Disappearing Act, Lava in a Cup, Cool Visuals, Can you weigh someone's signature, How can you count without counting, Jelly Beans, Test Your Scent IQ, and Strawberry Creation.

A fun time was had by all including the kids, their families, and our supportive volunteers!



Shown, top to bottom, students from Pace University, St. John's University, and Hofstra University at the National Chemistry Week Event at the New York Hall of Science.

(Photos courtesy of JaimeLee lolani Rizzo)

WESTCHESTER CHEMICAL SOCIETY

"I speak only if at least 49 people are in attendance," Dr. Rahni joked while we struggled to find more and more chairs to accommodate the swelling crowd. At the end, students quietly sat in the aisles and listened attentively to their professor's fascinating summary of 30 plus years research. The event drew such attention that a record number of NY Section chairs including Frank Romano joined us. The event ended in a culinary treat of Iranian cuisine at Shiraz Mediterranean Gourmet Market, Elmsford NY.

I would like to invite everyone back to our next event on December 8th at 5:50 PM at Westchester Community College.



Dr. David Rahni with students



From left: Richard Goodmann, Frank Romano, Jean Delfiner, David Rahni and wife, Rolande Hodel, Peter Corfield, and former NY Section chair G.R. Padmanabhan.

(Photos courtesy of Rolande Hodel)



Robertson Microlit Laboratories

Where speed and accuracy are elemental

Elemental CHN, S, X, Analysis (*same day service*)

Metals by ICP-OES, ICP-MS, A/A

FTIR, UV/VIS Spectroscopy

Ion Chromatography

Bioavailability

Polarimetry

DSC, TGA, melting point

KF Aquametry, Titrimetry

1705 U.S. Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136
www.robertson-microlit.com • email: results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing



**WILLIAM H. NICHOLS MEDAL
DISTINGUISHED SYMPOSIUM AND AWARD BANQUET**



Symposium: CHEMISTRY ON THE NANOSCALE

Award Recipient: PROFESSOR JULIUS REBEK, Jr.
The Skaggs Institute for Chemical Biology
Department of Chemistry, The Scripps Research Institute
LaJolla, CA

Date: Friday, March 18, 2011

Time: Registration 1:00 PM
Symposium 1:30 PM – 5:30 PM
Reception 5:45 PM
Award Dinner 6:45 PM

Place: Crowne Plaza Hotel, White Plains, NY

PROGRAM

- 1:30 PM **Welcome** Professor Hiroko I. Karan
2011 Chair, ACS, New York Section
Medgar Evers College – CUNY
- 1:35 PM **Opening of the Distinguished Symposium** Dr. JaimeLee Iolani Rizzo
2011 Chair-elect, ACS, New York Section
Pace University – New York City
- 1:45 PM **Chemical Synthesis Directed to Small Molecule Natural Products and Biologics** Professor Samuel J. Danishefsky
Memorial Sloan-Kettering Cancer Center
Columbia University
- General operating perspective in pharma is that small molecule drug targets are fashioned by chemists through various means. The current emphasis is on producing huge libraries for heavy-duty screening. By contrast, biologics are presumed to arise from strictly natural means. The lecture will deal with the very special nature of small molecule natural products in enabling small molecule leads. It will also show that chemical synthesis is now able to think realistically about gaining access to biologic-level targets through chemistry.
- 2:30 PM **Mechanical Forces at the Molecular Scale** Professor Stephen L. Craig
Duke University
- This talk will present studies of reactions that occur when large, directional forces are funneled from the macroscopic to the molecular scale. The outcomes are often unexpected and/or counterintuitive, including the ability to trap transition states for extended periods of time and molecules that get shorter in response to being pulled. In addition, mechanically active molecules will be presented as the basis for a new class of self-healing polymers, in which mechanical activation of chemical reactions leads to improved structure and properties under conditions that are typically destructive to both.
- 3:15 PM **Coffee Break**
- 3:45 PM **From Molecules to Materials** Professor Colin Nuckolls
Columbia University
- This talk will develop methods to bridge, both literally and figuratively, the tools for lithography and those for creating complex molecular structures. Through this combination, we create molecular devices that are ultrasensitive sensors and efficient photovoltaic materials.
- 4:30 PM **Molecular Behavior in Small Spaces** Professor Julius Rebek, Jr.
NICHOLS MEDALIST

This lecture follows the course of molecular recognition by synthetic receptors that completely surround their targets: encapsulation complexes. These operate

through the proper filling of space and reveal new forms of stereochemistry, isomerism, asymmetry, contortions and reactivity of molecules held inside. Capsules with spacers offer a set of molecular devices that operate through compression and expansion of alkanes. An encapsulation complex of anandamide is shown below.

5:45 PM **Social Hour**

6:45 PM **William H. Nichols Medal Award Dinner**

More information on the 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 the form on the New York Section website.

RESERVATION FORM

2011 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET

in honor of Professor Julius Rebek, Jr.

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

Please reserve _____ places for the symposium & banquet at \$95/person ACS member
 _____ places for the symposium & banquet at \$105/person Non-member
 _____ places for the banquet at \$85/person
 _____ places for the symposium at \$40/person, ACS member;
 _____ \$50 Non-member
 _____ (Student or unemployed at \$20/person)

(For table reservations of 8 or more, use the ACS member \$95/person rate for combination tickets)

Reserve a table in the name of: _____

Names of guests are: _____ Indicate numbers in your group who choose:

_____ Chicken _____

_____ Prime Rib _____

_____ Salmon _____

_____ Mail Tickets to:

_____ Name: _____

_____ Address: _____

BANQUET RESERVATION DEADLINE: MARCH 9, 2011

Please make checks payable to:
 ACS, NEW YORK SECTION

Check for \$_____ enclosed

NY Section - Articles of Incorporation

To all New York American Chemical Society members,

New York State requires us to update our NY Section Articles of Incorporation. The following document will be put to a vote at the New York Section Conference on Saturday, January 15th 9:00 AM to 1:00 PM at St. John's University. All paid members are welcome to attend our 2011 kickoff meeting and are eligible to vote. The NYACS Board recommends that you approve the Amendments to the Articles of Incorporation. Once the Amendment is approved by the membership it will be signed and submitted.

Frank Romano, Chair

New York State
Department of State
Division of Corporations, State Records and Uniform Commercial Code
One Commerce Plaza, 99 Washington Avenue
Albany, NY 12231
www.dos.state.ny.us
CERTIFICATE OF AMENDMENT
OF THE
CERTIFICATE OF INCORPORATION
OF

AMERICAN CHEMICAL SOCIETY'S NEW YORK SECTION, INC.

(Insert Name of Domestic Corporation)

Under Section 803 of the Not-for-Profit Corporation Law

FIRST: The name of the corporation is: **AMERICAN CHEMICAL SOCIETY'S NEW YORK SECTION, INC.**

If the name of the corporation has been changed, the name under which it was formed is: _____

SECOND: The certificate of incorporation was filed by the Department of State on:
March 27, 1935

THIRD: The law the corporation was formed under is: **New York State**

FOURTH: The corporation is a corporation as defined in Section 102(a)(5) of the Not-for-Profit Corporation Law.

FIFTH: The corporation is a **Type B** corporation. If the corporate purposes are being enlarged, limited or otherwise changed, the corporation shall be a Type ____ corporation.

SIXTH: The amendment effected by this certificate of amendment is as follows:
(Set forth each amendment in a separate paragraph providing the subject matter and full text of each amended paragraph. For example, an amendment changing the name of the corporation would read as follows: "Paragraph *First* of the Certificate of Incorporation relating to the *corporate name* is hereby *amended* to read in its entirety as follows:

First: The name of the corporation is ... (new name) ...")

Paragraph 4 of the Certificate of Incorporation relating to **Principal Office** is hereby *[check the appropriate box]* added to read in its entirety as follows or **amended** to read in its entirety as follows:

4. That the principal office of said corporation shall be located in the County of Queens and State of New York.

Paragraph 5 of the Certificate of Incorporation relating to _____ is hereby *[check the appropriate box]* added to read in its entirety as follows or

amended to read in its entirety as follows:

5. "That the number of Directors of the Corporation shall be provided for in the Bylaws of the Corporation, but shall never be less than three (3) Directors."

(Remove this page if not needed)

SEVENTH: The Secretary of State is designated as agent of the corporation upon whom process against it may be served. The address to which the Secretary of State shall forward copies of process accepted on behalf of the corporation is:

Ms. Marilyn Jespersen
Office Administrator
Department of Chemistry
St. John's University
8000 Utopia Parkway
Jamaica, New York 11439

EIGHTH: The certificate of amendment was authorized by: *(Check the appropriate box)*

- The amendment was authorized by a vote of a majority of the members at a meeting.
 - The amendment was authorized by the unanimous written consent of the members entitled to vote thereon.
 - The amendment was authorized by a vote of a majority of the entire board of directors.
- The corporation has no members.

(Signature)

(Signer's Title)

(Print or Type Signer's Name)

CERTIFICATE OF AMENDMENT
 OF THE
 CERTIFICATE OF INCORPORATION
 OF
AMERICAN CHEMICAL SOCIETY'S NEW YORK SECTION, INC.
(Insert Name of Domestic Corporation)
 Under Section 803 of the Not-for-Profit Corporation Law

Filer's Name _____

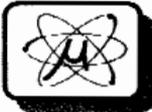
Address _____

City, State and Zip Code _____

NOTE: The certificate must be submitted with a \$30 filing fee. This form was prepared by the New York State Department of State. It does not contain all optional provisions under the law. You are not required to use this form. You may draft your own form or use forms available at legal stationery stores. The Department of State recommends that all documents be prepared under the guidance of an attorney. **Please be sure to review Section 804 and Section 404 of the Not-for-Profit Corporation Law to determine if any consents or approvals are required to be attached to this certificate of amendment.**

For Office Use Only

DOS-1553-f-l-a (Rev. 12/09)



Micron Analytical Services

**COMPLETE MATERIALS CHARACTERIZATION
 MORPHOLOGY CHEMISTRY STRUCTURE**

SEM/EDXA • EPA/WDXA • XRD XRF • ESCA • AUGER • FTIR • DSC/TGA

Registered with FDA • DEA GMP/GLP Compliant

3815 Lancaster Pike Wilmington DE, 19805

Voice 302-998-1184, Fax 302-998-1836

E-Mail micronanalytical@compuservc.com

Web Page: www.micronanalytical.com

Call for Papers

THE INAUGURAL NY ACS YOUNGER CHEMISTS COMMITTEE (YCC) RESEARCH SYMPOSIUM

This symposium is an opportunity for undergraduate students, graduate students, post-docs, faculty members, and workers in government and industry in the NYC-metro area to meet fellow scientists and present research. We plan to have oral presentations, a keynote speaker and a poster session highlighting work in analytical chemistry, biochemistry/chemical biology, inorganic chemistry, organic chemistry, physical chemistry and theoretical chemistry. In addition, a networking reception will immediately follow the poster session.

We welcome abstract submissions on all topics of chemistry. The best abstracts will be selected as oral presentations. There will be prizes for the best posters also. To submit an abstract, please request a form at nyacsyccsymposium@gmail.com and submit it by **March 1, 2011**.

Call for Nominations

EDWARD J. MERRILL AWARD FOR OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER FOR 2011

Now is the time to begin thinking about nominations for the Edward J. Merrill Award, North Jersey Section, for Outstanding High School Chemistry Teacher for the year 2011.

Go to the web site, njacs.org under education and obtain your preliminary nomination form and guidelines. The full packet takes time to do a good job!

We all know an outstanding high school chemistry teacher. Perhaps one from your town, your son's or daughter's teacher or just one that you have heard about or worked with at some point. The award carries \$500 for the teacher, \$500 in supplies for the teacher's classroom and a plaque to display at home or in the classroom.

Any questions or help needed contact George Gross, njmoxie1@verizon.net.

METRO WOMEN CHEMISTS COMMITTEE

2011 Mentorship Award

You can nominate your mentor if you have benefited from the mentorship or you can nominate yourself if you have had positive influence over other people's lives or careers. The qualified nominees should be ACS members. Please write your stories with no more than 300 words and send them to Kelly George at kelly.george@roche.com no later than **March 15, 2011**.

The award ceremony and dinner will be held in April 2011 at the picturesque Madison campus of Fairleigh-Dickinson University.

Thanks for your participation!



2011 LIFETIME ACHIEVEMENT AWARD OF THE NORTH JERSEY SECTION

The biennial award, funded by Novartis, consists of \$1,000 prize and a plaque. It recognizes a North Jersey chemist or chemical engineer over fifty years of age, for conspicuous achievements in chemistry, not heretofore recognized by any major scientific awards.

Please submit nominations and supporting letters to Jiwen Chen, Awards Committee Chair, c/o NJ ACS, 4 Cameron Road, Piscataway, NJ 08854. Tel: 609-818-6319, email: jchen@njacs.org (Electronic submission of the nomination package welcomed) Nominations must be received by **March 15, 2011**. Visit <http://www.njacs.org/awards.html> for more information and a list of past recipients.

Others

AIChE HONORS EXCEPTIONAL ACHIEVEMENTS WITH 2010 AWARDS

Four New Awards Spotlight Industrial Achievements

SALT LAKE CITY (Nov. 8) – In a ceremony during its Annual Meeting, the American Institute of Chemical Engineers (AIChE) presented awards to 16 leaders and innovators in chemical engineering. This year marked the first presentation of four new

awards that spotlight achievements in the industrial sectors of chemical engineering.

The Dow Chemical Company R&D Team: Shuttle Crew of Freeport, Texas received the Industrial Research and Development Award for the discovery of a new mechanism for polymerization. The team was able to create new polymers thanks to their discovery, and modify existing plant reactors. Daniel J. Arriola accepted the award on behalf of The Dow Chemical Company.

The inaugural Industry Leadership Award recognizes individuals or teams working in the industries served by chemical engineers. S. Shariq Yusufzai, vice president, Chevron Corporation, received the award for both his leadership over the past 35 years and for creating three startup companies in a Fortune 15 company.

Bristol-Myers Squibb – Process Research and Development, received the Process Operations Award. Vice President of Process R&D Mauricio Futran accepted the award on behalf of the company for its efforts in implementing recipe control in pharmaceutical process development.

The Marathon Petroleum Company received the Engineering and Construction Award which recognizes individuals or teams for achievement in the design and/or construction of process plants or process plant revamps. James Shoriak, director of major downstream projects at Marathon, accepted the award on behalf of the company.

The Sustainable Energy Award recognizes individuals, teams or companies who have made a significant contribution toward alternative energy development, generation and use. UOP-ENI Biologically-based Fuels Team received the award. Chris Gosling and Giovanni Faraci accepted the award on behalf of UOP-ENI. In addition, AIChE also honored these 11 outstanding chemical engineers:

Peter T. Cummings
 Thomas F. Edgar
 Teh-Chung Ho
 William John Koros
 Ali Khademhosseini
 William B. Russel
 Richard D. Noble
 Michael W. Deem
 Glenn E. Taylor
 Ioannis G. Kevrekidis
 T.W. Fraser Russell

For more information about AIChE, please go to www.aiche.org.

Press Release

Siluria

ChemInnovations, the premier chemical and petrochemical conference and expo, was held in Houston, Texas on September 13-15.

Alex Tkachenko seized the conference as a stage to launch Siluria, a natural gas company, for which he serves as president. Siluria has discovered a breakthrough process that converts natural gas into ethylene, the basis of countless chemicals, plastics and fuels currently originating from petroleum.

Natural gas is one of the world's most abundant resources. According to CLEAN, a nationwide non-profit working to inform every day people on energy, 65% of citizens consider natural gas to be the power source of tomorrow. The future for the chemicals industry looks bright as start-up companies like Siluria strive to improve existing technologies and open doors to new, transformative market opportunities.



Hach Company

2nd Annual Water Experts Virtual Conference Now Available On-demand

Loveland, Colo. – November 11, 2010 – Hundreds of people from the water quality industry around the country participated in Hach Company's (www.hach.com) second annual Water Experts Virtual Conference on Tuesday, November 9, 2010. Attendees visited presentations on-demand, joined live question/answer discussion forums, visited ten tradeshow booths, and downloaded information into their virtual briefcase.

While the live show has ended, due to the demand to continue to access the information, the content is still available for water professionals to visit at www.HachWaterExperts.com.

Hach designed the Water Experts Virtual Conference as an innovative way to bring together water experts from around the globe to share insights and provide industry professionals the benefits of going to a conference, visiting booths and networking with one another without the hassle or expense of travel.

Professional/Product Directory

NJIT

New Jersey's Science & Technology University

MATERIAL CHARACTERIZATION LABORATORY

• A Unique Combination of State-of-the-Art Analytical Instruments and Expertise

GC/MS • HPLC • LC/MS • FTIR • TOC • AA
ICP-MS • XRD • XRF • AFM • SEM • TEM

York Center for Environmental Engineering & Science
www.ycees.njit.edu/labs

138 Warren Street
Newark, NJ 07102

Tel: (973)-596-5858
Fax: (973) 642 7170



Eastern Scientific

www.easternsci.com

781-826-3456

Vacuum Pump Problems?

Eastern Scientific specializes in the repair and precision rebuilding of all makes of mechanical vacuum pumps.



Free pick-up & delivery
Restrictions apply

NMR_{Service} 500MHz

*Mass

*Elemental Analysis

NuMega Resonance Labs

numegalabs.com P- 858-793-6057

Elemental Analysis

CHNOS ash
ICP • AA • ICP/MS
TOC • TOX • BTU
Problem Solving

HUFFMAN

LABORATORIES, INC.

Quality Analytical Services Since 1936

Phone: (303) 278-4455

FAX: (303) 278-7012

chemistry@huffmanlabs.com
www.huffmanlabs.com



PROMOTE YOUR PRODUCTS AND SERVICES • ADVERTISE IN THE INDICATOR

The Indicator readership is New York and Northern New Jersey's largest source for chemical and biochemical buyers. *The Indicator* reaches more than 12,000 readers each month. It has been estimated that these buyers annually purchase more than \$6,000,000 of:

- EQUIPMENT
- SUPPLIES
- CONSULTING SERVICES

Placing an advertisement in *The Indicator* is the lowest cost method of reaching this select audience.

For further information and other options for promoting your company's products and services visit:

www.mboservices.net

WANT MORE ARTICLES

When you tell our advertisers that you saw their ads here they have more confidence in our newsletter's viability as an advertising medium. They advertise more. This supports our many activities.

Ad Index

ANALYTICAL

EMD Chemicals	7
Huffman Laboratories, Inc.	24
Micron Inc.	21
Nacalai USA Inc.	2
New Jersey Institute of Technology	24
NuMega Resonance Labs.	24
Robertson Microлит Labs	17
Vacuubrand, Inc.	4

EQUIPMENT

BUCCI Corporation	15
Eastern Scientific Co.	24
Mass Vac, Inc.	2

GENERAL

ACS-NY/NoJ Sections	13
ACS-NY/NoJ Sections	24
ACS-NY/NoJ Sections	24