

MARM in Review

(See pages 24 to 26.)

Attention North Jersey Readers

Be Alert for Upcoming Changes.

(See page 8.)

RECYCLE THIS PAPER

PERIODICALS POSTAGE

www.theindicator.org

www.njacs.org

www.newyorkacs.org

STEVENS

Institute of Technology

Department of
Chemistry, Chemical Biology, and Biomedical Engineering
Hoboken, NJ 07030
www.stevens.edu/ses/chem-bio

FALL SEMESTER EVENING GRADUATE COURSES
Classes 6:15-8:45pm Semester begins August 25, 2008

SPECIAL COURSES

ADVANCED ORGANIC CHEMISTRY – Ch 640 (Mon)

Modern concepts, including conformational analysis, bonding & structure, mechanisms, concerted pericyclic reactions, photochemistry applications, more.
Prereq. – Undergraduate Organic Chemistry Prof. Abeywickrama

MODERN MASS SPECTROMETRY – Ch 666 (Thur)

Hands-on course from fundamentals through biological and biochemical applications; EI, CI, FAB, MALDI, ESI, TOF, FTMS, etc. included.
Prereq. – Undergraduate Organic and Physical Chemistry Prof. Attygalle

POLYMER FUNCTIONALITY – Ch 674 (Tue)

Synthetic polymers, biopolymers, and polymer applications in biotechnology: tissue/cell engineering, biosensors, and drug delivery, etc. No prior polymer expertise required. Prof. Liang

AND ALSO

Instrumental Analysis Laboratory – Ch 561 (Wed)
Physiology – Ch 583 (Thur)
Synthetic Organic Chemistry - Ch 642 (Thur)
Spectra & Structure Determination – Ch 650 (Tue)
Computer Methods in Chemistry – Ch 664 (Fri)
Biochemistry II – Ch 681 (Mon)
Molecular Genetics – Ch 687 (Tue)

For Applications: Graduate School (201) 216-5234

For Information: Department (201) 216-5528

THE INDICATOR

Manager / Editor
LINDA ATKINS
PO Box 3301, Spring Hill, FL 34611-3301
973-981-4383; Fax 352-200-5195
e-mail: linatkins@tampabay.rr.com

Advertising Manager
VINCENT GALE

MBO Services
PO Box 1150, Marshfield, MA 02050-1150
781-837-0424; Fax 781-837-1453
e-mail: vincegale@mboservices.net

INDICATOR COMMITTEE

New York Section Rep.

DR. NEIL JESPERSEN

Chemistry Dept., St. John's University
8000 Utopia Parkway, Jamaica, NY 11439
718-990-5221, e-mail: jespersen@stjohns.edu
North Jersey Section Rep.
DR. ANITA BRANDOLINI
TAS, Ramapo College, 505 Ramapo Valley Rd.,
Mahwah, NJ 07430 • 201-884-7753
e-mail: abrandol@ramapo.edu

Web Master

PAUL TUKEY — e-mail: tukey@verizon.net

NEW YORK SECTION
<http://newyorkacs.org>

Chair

DR. MARC WALTERS
Dept. of Chemistry, New York University
100 Washington Square East, New York, NY 10002
212-998-8400; Fax 212-260-7905
e-mail: marc.walters@nyu.edu

Chair-Elect

DR. BARBARA R. HILLERY

Dept. of Chemistry, Old Westbury College - SUNY
P.O. Box 210, Old Westbury, NY 11568
516-876-2738; Fax 516-876-2704
e-mail: hilleryb@oldwestbury.edu

Secretary

DR. IWAO TERAOKA
Dept. of Chemical and Biological Sciences
Polytechnic Univ., 333 Jay St., Brooklyn, NY 11201
718-260-3466; Fax 718-260-3676
e-mail: teraoka@duke.poly.edu

Section Office

St. John's University, Chemistry Dept.
8000 Utopia Parkway, Jamaica, NY 11439
516-883-7510; Fax 516-883-4003
e-mail: njesper1@optonline.net

NORTH JERSEY SECTION

<http://www.njacs.org>

Chair

DR. MICHAEL M. MILLER

Drug Discovery Chemistry, Bristol-Myers Squibb Co.
Pharmaceutical Research Inst., P.O. Box 5400,
Princeton, NJ 08543-5400
e-mail: michael.miller@bms.com

Chair-Elect

DR. JOSEPH POTENZA

Dept. of Chemistry and Chemical Biology
Rutgers University
610 Taylor Road, Piscataway, NJ 08854
732-445-2115, Fax 732-445-5312
e-mail: jpotenza@rutchem.rutgers.edu

Secretary

BETTYANN HOWSON

49 Hillside Avenue, Madison, NJ 07940-2612
973-822-2575
e-mail: chemphun@optonline.net

Section Office

4 Cameron Road, Piscataway, NJ 08854
732-463-7271

THE Indicator

CIRCULATION: 10,500

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

CONTENTS

Advertisers Index	30
Call for Papers/Posters	28-29
Education	2, 4, 9, 23, 31
MARM in Review	24-26
New York Meetings	18-19
North Jersey Meetings	8-11
Others	26-28
Position Available	22
Professional/Product Directory	29-30

EDITORIAL DEADLINES

October	August 15
November	September 15
December	October 15
January 2009	November 15
February	December 13, 2008
March	January 16, 2009
April	February 13
May	March 16
June	April 15
September	July 15

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 10500 Horizon Drive, Spring Hill, FL 34608-5761. Periodicals Postage Paid at Spring Hill, 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. Subscription price to non-members of either Section \$20.00 per year. To subscribe, make checks payable to *The Indicator* and mail to the Manager/Editor (see top of left column on this page).

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

September Calendar

NEW YORK SECTION

Tuesday, September 9, 2008

Chemical Marketing & Economics Group
See page 18.

Friday, September 19, 2008

High School Teachers Topical Group
See page 18.

Tuesday, September 23, 2008

New York Biochemical Topical Group
See page 19.

Tuesday, September 23, 2008

New York Nanoscience Discussion Group
See page 19.

NORTH JERSEY SECTION

Thursday, September 4, 2008

Careers in Transition
See page 8.

Monday, September 8, 2008

Teacher Affiliates
See page 9.

Thursday, September 11, 2008

ChemTAG Meeting
See page 9.

Tuesday, September 16, 2008

MetroWomen Chemists, Younger Chemists
Committee & FDU Student Affiliates
See page 9.

Thursday, September 18, 2008

New Jersey Group of Small Chemical
Businesses
See page 10.

Monday, September 22, 2008

NoJ Executive Committee Meeting
See page 8.

Monday, September 22, 2008

Project SEED Poster Session
See page 11.

**Deadline for items to
be included in the
October 2008 issue of
The Indicator
is August 15, 2008.**



Education

Center for Advanced Technology at the City University of New York
(CUNYCAT)

Dedicated to Helping New York State Business

NYSTAR

Need Help with R&D, or Problem Solving?

New Product Development

Developing Intellectual Property

Improved Quality

Spin-off New Companies

University Connection

Increased Capital Investment

Job Growth and Retention

Applying for Government Grants (SBIR)

Contact us: info@cunyphotonics.com <http://www.cunyphotonics.com> 718 997 4280

SEPTEMBER HISTORICAL EVENTS IN CHEMISTRY

by Leopold May

The Catholic University of America, Washington, DC

September 5, 1892

Coca Cola Company was incorporated on this day.

September 7, 1829

One hundred and fifty years ago in 1858, F. August Kekulé described the quadrivalence of carbon and structural theory of organic chemistry. In 1865, he conceived the ring structure of benzene and synthesized acetylene in 1864. He was born on this date.

September 9, 1858

One hundred and fifty years ago, Carl Auer von Welsbach was born. He was a researcher in rare earths who discovered neodymium and praseodymium in 1885, and in 1907, lutetium with Georges Urbain. An invention of his was the incandescent mantle (Welsbach Mantle or Auerlicht).

September 10, 1775

John Kidd, who discovered naphthalene in coal tar in 1819, was born on this day.

September 12, 1897

Seventy-five years ago in 1933, Irène and Frédéric Joliot-Curie produced artificial radioisotopes. In 1935, they shared the Nobel Prize in Chemistry in recognition of their synthesis of new radioactive elements. She was born on this date.

September 13, 1945

B. B. Cunningham and L. B. Werner isolated the first microscopic amount of a compound of americium at the wartime U. S. Metallurgical Laboratory, University of Chicago, on this date.

September 14, 1961

Analtech, inc., manufacturer of products for thin layer chromatography, was founded as Custom Service Chemicals on this date. Name was changed in January 8, 1965 to Analtech, Inc.

September 16, 1970

Great Lakes Chemical Co. was incorporated on this date.

September 20, 1842

James Dewar, who invented the vacuum flask (Dewar flask) in 1892, was born on this date. He was the first to liquefy hydrogen in 1899 and showed that many common substances phosphoresce at liquid air temperature.

September 24, 1874

Alexander Findlay, an authority on phase rule, was born on this day.

September 25, 1866

Seventy-five years ago, Thomas H. Morgan, one of the founders of modern genetics, received the Nobel Prize in Physiology or Medicine in 1933 for his discoveries concerning the role played by the chromosome in heredity. He was born on this date.

September 26, 1886

Archibald V. Hill who did research on oxygen consumption of muscular action was born on this day. He received the Nobel Prize in 1922 for his discovery relating to the production of heat in the muscle and shared with Otto F. Meyerhof for his discovery of the fixed relationship between the consumption of oxygen and the metabolism of lactic acid in the muscle.

September 28, 1852

Henri Moissan, who was born on this day, discovered fluorine in 1886 and invented an electric furnace in which he prepared metal carbides and silicon carbides. In 1906, he received the Nobel Prize in Chemistry in recognition of the great services rendered by him in his investigation and for the adoption in the service of science of the electric furnace called after him.

Additional historical events can be found at Dr. May's website, at <http://faculty.cua.edu/may/ChemistryCalendar.htm> or the "This Week in Chemical History" at the ACS website: <http://www.acs.org/whatischemistry>.

THIS MONTH IN CHEMICAL HISTORY — I

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

Prepared for SCALACS, the Journal of the Southern California, Orange County, and San Gorgonio Sections of the American Chemical Society

Wilhelm Ostwald (1853 – 1932) is often known as the father of physical chemistry. But there's much more to Ostwald than just physical chemistry. My interest in Ostwald this month is prompted by my recent acquisition of the English edition of his "Manual of Physico-Chemical Measurements" of which more in the following column. But first to the man himself. I have drawn on the "Ostwald Memorial Lecture" by F.G. Donnan, delivered to the Chemical Society [of London] on January 27, 1933. Since Ostwald's autobiography runs to 3 volumes, and Donnan's lecture to 17 pages of small print, I can only hope to give a précis of some of this great man's endeavors.

Friedrich Wilhelm Ostwald was born in Riga in 1853. He showed a lively interest in science while at the Gymnasium in Riga and proceeded to the University of Dorpat to study chemistry. There he played a great deal of chamber music (he was an accomplished violinist), dabbled in landscape painting, and had an active social life. But he passed the required examinations and, for a thesis project, experimented on the mass action of water. He continued after graduation as an assistant at the university and began working on chemical affinities. He obtained his doctorate at Dorpat and began to lecture on physical chemistry. He also married his wife of 52 years, whom he met at a musical soiree.

At the age of 28 Ostwald was appointed Professor at the Riga Polytechnicum and there, while continuing to work on his influential "Textbook of General Chemistry", he began a program of kinetics studies examining the hydrolyses of acetamide, esters, and sucrose.

On a day in June 1884, as Ostwald himself recalled, he got three things, namely a toothache, a daughter, and the doctoral dissertation of a then unknown Swedish chemist, Svante Arrhenius. The dissertation was titled "Researches on the galvanic conductivity of electrolytes". He grasped the significance of Arrhenius' ideas in connection with his own work on activity coefficients in catalyses of hydrolytic reactions and in August 1884 visited Arrhenius in Upsala. In 1886 Arrhenius came to Riga to work in Ostwald's laboratory.

In 1883 and 1887 the two volumes of Ostwald's textbook appeared and, also in 1887, the first issue of the Zeitschrift für physikalische Chemie, edited by Ostwald, appeared. This was the first journal devoted to physical chemistry and numbered among its collaborators William Ramsay (then at Bristol). Many of Ostwald's papers appeared in the new journal including work on conductivity and dilution; cell potentials; and catalysis by acids of redox reactions. Ostwald was called to the Chair of Physical Chemistry at Leipzig in 1887 and among the assistants he appointed on arriving there was Walther Nernst and Ernst Beckmann (of thermometric fame!). His Leipzig laboratory became the world center for the new physical chemistry, which included the ionization views of Arrhenius, van't Hoff, and Ostwald. Dozens of foreign and German students came to these laboratories to work on physico-chemical problems that included osmotic pressure, and Ostwald's famous dilution law. Four thick volumes cover the work done in the laboratory in the decade 1887 – 1897. To quote Donnan: "Picture to yourselves a friendly enthusiastic man, with penetrating eyes, fresh colour, and reddish hair, moustache, and beard, going the round of the research laboratory every day. If you had a difficulty, Ostwald had a solution to offer."

Let me now turn to other aspects of Ostwald's career. He initiated and edited a series of classic works in the history of chemistry. He wrote many influential texts, including beginning textbooks. He translated Willard Gibbs' great thermodynamics paper into German and promoted its ideas. He was also a philosopher of science, proposing energy rather than matter as the fundamental stuff of the universe. In 1903 – 1906 he paid several visits to the United States, lecturing on both chemistry and philosophy. After World War I, retiring from chemistry, he studied the scientific foundations of color rendering in art.

Ostwald received over 60 honors including degrees and medals from many leading universities and scientific societies. He died in Leipzig in April 1932.

THIS MONTH IN CHEMICAL HISTORY — II

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

Prepared for SCALACS, the Journal of the Southern California, Orange County, and San Gorgonio Sections of the American Chemical Society

In the preceding column I gave a brief synopsis of the life and work of Wilhelm Ostwald, the father of physical chemistry. I recently purchased a copy of Ostwald's "Manual of Physico-Chemical Measurements" translated by James Walker, Professor of Chemistry at University College, Dundee and published in London and New York by Macmillan & Co. in 1894. In this column I will examine the contents of this influential book, which first appeared in German in 1893. It is perhaps the first textbook of experimental physical chemistry. As Ostwald says in his preface: "I have not written for the beginner, who has neither acquired the manipulative skill necessary for the performance of these experiments nor a sufficient knowledge of the more important processes, but for the chemist or physicist who has already gone through the greater part of his special course, and recognizes the necessity of making himself acquainted with the borderland between the two sciences..." (Note the gender specificity of the language!)

My copy of the book has a set of tables inserted into a pocket at the back of the book. They are interesting; a table for the division of a slide rule; densities of water and mercury; specific heat of water; tables for Wheatstone's Bridge; and calculation of the dissociation constant.

Ostwald paid much attention to measurement, precision, and accuracy. The first chapter is on calculation and includes instruction on the slide rule. (A reminiscent moment; when I first taught general chemistry laboratory we devoted the first class meeting to instruction on the use of the slide rule. I wonder what became of the six foot demonstration slide rule we used to hang at the front of the classroom.) Chapter 2 is on measurement of length, including the vernier; Chapter 3 on weighing including allowances for the buoyancy of air; Chapter 4 on measurement and regulation of temperature – Ostwald invented an ingenious thermostat that is described in Chapter 5. This chapter also includes an interesting section on stirring motors: "In the laboratory we may make use of gravitation, water, hot-air, and electromagnetic motors" but he also describes clockwork motors. Small hot-air motors costing around two English pounds are kept running continuously at about 3 - 5 revolutions per second by means of a small burning gas jet. While conceding the utility of electromagnetic motors it is impractical to run them from galvanic cells. "If the laboratory is connected with an electric station [uncommon at this time-hg] these motors are very easily set up and started."

Chapter 6 on glass-blowing reminds us that Ostwald was himself a talented and ingenious experimentalist, who did much of his own glass-blowing and required his students to do the same. All the work was with soft glass which any of my readers with glass-blowing experience will appreciate is an order of magnitude more challenging than working with borosilicate glass.

Further chapters follow on thermal measurements including temperature and calorimetry; optical measurements including spectra; viscosity, surface tension, and solubility; and determination of molecular weights in solution. A long chapter (over 50 pages) on electrical measurements includes potentials, conductivities, and dissociation constants. And finally, in a handful of pages devoted to chemical dynamics, there are some actual experiments including catalysis of the hydrolysis of methyl acetate; and the inversion of cane sugar. Thus the manual lives up to its title "Manual of Physico-Chemical Measurements". In this book Ostwald gave the scientific community the tools for carrying out their own experimental investigations of physical chemistry.

North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

The North Jersey Section Executive Committee meeting will be in conjunction with the Project SEED Poster Session and Dinner at Seton Hall University. Section officers, councilors, committee chairs, topical group chairs, and section event organizers will meet to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting as visitors and to become more involved in section activities.

Date: Monday, September 22, 2008

Time: SEED Poster Session 4:30 PM
Meeting 6:30 PM

Place: Science and Technology Center
Seton Hall University
400 South Orange Avenue
South Orange, NJ

Cost: Dinner \$20.00

Directions: <http://www.shu.edu/visiting/>

Reservations: call (732) 463-7271 or email njacsoffice@aol.com prior to **Wednesday, September 17, 2008**.

Dinner at the North Jersey Meeting 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 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:

- The 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, September 4, 2008**, 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 vjkuck@yahoo.com, if you plan on attending this meeting.

Attention North Jersey Readers

SPECIAL ANNOUNCEMENT

Starting with the January 2009 issue of *The Indicator*, paper copies will be mailed only to individuals who have notified John Penna **before October 1, 2008**, at 4 Cameron Road, Piscataway, NJ 08854 (732-463-7271) or at njacsoffice@aol.com.

The January *Indicator* will be posted on the North Jersey web-site. Go to <http://theindicator.org> and see how easy it is to access *The Indicator*.

Other advantages of posting *The Indicator* include: the ability to access previous issues quickly, the capability of enlarging the print size to increase readability, and knowing that you have helped save a tree.

LOCAL SECTION VOLUNTARY DUES

North Jersey Members:

This fall you will notice a change to your annual dues bill from the ACS. Starting with the 2009 ACS dues bill, the North Jersey Section will be collecting voluntary Local Section Dues from our members.

Due to rising costs, we are asking our members to pay these voluntary dues to help support the section and maintain its financial security. We plan to use these funds in support of programming, local section awards, public outreach events such as Earth Day and National Chemistry Week, as well as *The Indicator*.

If you have any questions regarding the voluntary dues, please contact Jacqueline Erickson at jacqueline.a.erickson@njacs.org.

TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, September 8, 2008

Time: 4:30 PM

Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

Contact: Cheryl Litman at, 1-732-289-3700

Ext. 4034, clitman@mail.nbtschools.org



ChemTAG MEETING

Hostess: Barbara McNally
bbmcnally@aol.com
732-292-2000

Date: Thursday, September 11, 2008

Time: 4:00 – 6:00 PM

Place: Morristown High School
50 Early Street
Morristown, NJ 07960

<http://www.morristownhighschool.org/groups/admin/directions.html>

METRO WOMEN AND YOUNGER CHEMISTS COMMITTEES

Please join the MetroWomen Chemists Committee, Younger Chemists Committee and FDU Student Affiliates for a talk on job hunting and interviewing by Valerie Kuck.

Date: Tuesday, September 16, 2008

Time: 7:00 PM

Place: Fairleigh Dickinson University
Hartman Lounge, the Mansion
Madison, NJ

Refreshments will be served. Please register at www.njacs.org or by sending an email to jacqueline.a.erickson@gsk.com. Also, please check www.njacs.org for updates and directions.

SURPRISE

Our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way, you could also give credit to our advertisers who financially support us.

Education



Department of Chemistry and Biochemistry
Fall 2008 - Graduate Courses, leading to the MS and PhD degrees
September 3 – December 17, 2008
Registration: August 28, 10:00 am – 12:00 n. & 3:00 pm – 6:00 pm
All courses and programs are offered on a full or part time basis. Classes meet during the evening or on weekends to accommodate busy working professionals.

Course Number	Title	Day	Time	
CHEM 6205 NA	Modern Separation Tech.	Tues.	8:35-9:50	
		Thurs.	7:00-8:15	
CHEM 6301 NA	Theoretical Organic Chemistry I	Wed.	7:00-10:00	
CHEM 6403 NA	Quantum Chemistry	Tues.	7:00-8:15	
		Thurs.	8:35-9:50	
CHEM 6501 AA	General Biochemistry I	Tues.	7:00-8:15	
		Thurs.	8:35-9:50	
CHEM 6601 NA	Advanced Inorganic Chemistry I	Mon.	7:10-10:00	

For more information, please visit the Department of Chemistry and Biochemistry website at <http://artsci.shu.edu/chemistry/>, call us at 973-761-9414, or email chemistry@shu.edu

NEW JERSEY GROUP OF SMALL CHEMICAL BUSINESSES

Trade Shows: How to Leverage Them for Best Results and Maximum Benefit

Speaker: George Sierchio
The Consultant's Coach
Action Business Partners, Inc.

Many manufacturing based businesses as well as those that consult in the manufacturing world use trade shows as a source for marketing and lead generation. These shows can get very expensive and should be conducted to get the most bang for your buck. The biggest mistake most make is treating the show as the only focal point and not designing the event as a "before-during-after" marketing process. This talk will take you through the process of how to decide what shows to participate in, and what to think about to get the most out of them, including:

- Choosing the right show to attend (selecting your audience)
- Determining obtainable benefits beyond just having a booth
- Choosing the niche product or service to showcase (content)
- Determining what visitors will get for stopping by your booth (pre-sell)

www.caslab.com

Trusted technical expertise.



3860 S. Palo Verde Road, Suite 302
Tucson, AZ 85714
520.573.1061
tucsonlab@caslab.com

Our Tucson Laboratory provides professional Micro-Elemental and Fuel Testing Services

- CHNOS
- Carbon & Sulfur
- Halogens & Anions
- Metals - ICP-OES, ICP/MS, AAS
- Fuel Analysis
- Air Sensitive & Hygroscopic Samples
- Contact Columbia Analytical for a full list of capabilities.

Same day to 4-6 day rush services available.



Columbia Analytical Services™
An Employee-Owned Company

- Letting the right people know that you will be there and attracting their attention (traffic)
- Developing your "at-the-show" game plan and executing it (lead generation)
- Keeping people motivated and adjusting the game plan
- Follow-ups (sell)

George Sierchio is a degreed engineer and the founder of Action Business Partners, Inc. ABP is a business advisory firm that specifically works with technology-based business owners on common issues such as growth, marketing, funding, finances, time management, client management, employee problems, and value building exit strategies. Before founding ABP 5 years ago, Mr. Sierchio had over 11 years of experience owning and operating several successful small businesses in a variety of technical and non-technical industries. In addition to business coaching and advising, he has helped thousands through speaking engagements as well as articles and book publication.

Date: Thursday, September 18, 2008

Times: Networking - Cash Bar 5:30 PM
Dinner and Introductions 6:30 PM
Presentation 7:15 PM
Networking and Dessert/Coffee 8:15 PM

Place: Holiday Inn, North (on the north side of Newark Airport)
160 Frontage Road
Newark, NJ
For map and directions, see www.NJGSCB.org

Cost: In advance: \$45 for members of NJGSCB; \$55 for non-members
Walk-ins: \$55 for members and non-members

All reservations must be made in advance at our web site: www.NJGSCB.org. To pay by check, reserve by sending an email to info@NJGSCB.org and mailing a check to:
NJ Group of Small Chemical Businesses
16 Park Terrace, Montclair, NJ 07043
Checks must arrive no later than **Monday, September 15.**

Questions? Call Pete Sibilski at 732-254-1901 Ext 140 or Psibilski@mail.alzointernational.com

Reserve by: Please reserve by **September 15, 2008** EOB. Cancel in advance - EOB Sept. 15 - or be invoiced. Walk -ins will be accommodated if space is available.

CELEBRATE 40 YEARS OF NATIONAL PROJECT SEED BY ATTENDING YOUR LOCAL ACS SEED POSTER SESSION AND HEARING WHAT'S NEW

As Part of the NoJ Executive Committee Meeting

On Monday, September 22, choose the posters that interest you, and which display the research that eager SEED students did this summer. They include organic, pharmaceutical, biological, analytical, environmental, computational, inorganic, physical, and polymer chemistry, as well as chemical and bioengineering, food, cosmetic, plant, and materials science, and drug development.

Your interest is crucial. Thanks to your help, the SEED students will be further inspired. North Jersey SEED students worked at NJIT, Rutgers and Cook College (3 campuses), Seton Hall, Stevens, Columbia University, Hunter College, Beth Israel Hospital, UMDNJ in Newark, Ramapo College, New Jersey City University, NJ Meadowlands Environmental Org., Kean

University, Fairleigh Dickinson University, Hackensack Hospital, and the Public Health Research Institute in Newark.

Thanks are due to the mentors' kindness and dedication, and funds donated by school boards, corporations, the ACS SEED endowment, and many individual chemists.

Date: Monday, September 22, 2008

Time: SEED Poster Session 4:30 PM

Place: Student Center
Seton Hall University
400 South Orange Avenue
(corner Centre Street)
South Orange, NJ

Directions: <http://www.shu.edu/visiting/>

Everyone is invited. There is no charge and no reservations are needed if you go to the poster session and cannot stay for dinner. You are welcome to be a judge, and if you are a judge, you receive a free buffet dinner. To stay for dinner, call Bill Suits at (908) 234-9240 preferably by **September 18.** Call Susan Fahrenholtz at (973) 338-6588 or Allene Johnson at (973) 763-6883 for more information.



Custom Molecules for Life

Custom Synthesis Services

iQsynthesis Technology provides customized Chemical synthesis at milligram to kilogram quantities.

- Custom Synthesis
- cGMP Synthesis of API and Intermediates
- Process Development
- Cytotoxic and Highly Potent Compounds
- Hot and Cold Isotopic Labeling
- Analytical Support



iQsynthesis
11810 Borman Drive
St. Louis, MO 63146
314-991-1857
1-800-506-9892
www.iqsynthesis.com
info@iqsynthesis.com

INNOVATION | QUALITY

POLYMER TOPICAL GROUP

Functional Packaging Through Chemistry

Organizer: Dr. Tamal Ghosh (tamal@alumni.stevens-tech.edu)

Co-Organizers: Dr. Bin Wei (ICI National Starch and Chemical bwei01@gmail.com) and Dr. Ankur S. Kulshrestha (BD Medical, Ankur_Kulshrestha@bd.com)

TENTATIVE PROGRAM

Keynote Talk: Challenges in Sustainable Packaging

Speaker: Dr. Bob Kimmel
Clemson University

Oxygen and Moisture Vapor Barrier Coatings

Speaker: Dr. Derek Illsley
Sun Chemical

Expanding the World of Packaging Applications for Ingeo™ Biopolymers

Speaker: Mr. Jim Nangeroni
NatureWorks

The Polymer Supply Chain and the Impact on Extractables and Leachables in Pharmaceutical Container Closure Systems

Speaker: Dr. Michael Ruberto
Ciba

Temperature Monitoring in Pharmaceutical Cold-Chain

Speaker: Mr. Oumer Salim
Wyeth Biotech

Evolution of Electronic Packaging and Its Demands to Materials

Speaker: Dr. Allison Xiao
ICI National Starch

This symposium is presented by the Polymer Topical Group of the North Jersey Section of the American Chemical Society. It features presentations contributed by leading scientists from both academia and industry. The event is intended to bring the local polymer science community up-to-date on the advancements in the chemistry relating to packaging, in a range of applications such as pharmaceuticals and vaccines, food packaging, electronic devices, and many other exciting areas.

This event also features presentations, posters and networking opportunities of interest to diverse professionals involved in the functional packaging industry. Whether you are from academia or industry, this is a good opportunity for you to showcase your research, network with other people and contact possible employers and clients.

In addition to posters focusing on packaging, general polymer posters are being solicited. We are looking for poster submissions relating to polymer research in diverse areas such as green polymers, advanced polymeric materials, polymer characterization, etc. Any registered conference attendee may sign up to present a poster on any polymer-related topic.

We look forward to seeing you at this symposium and hope that you would take advantage of the scientific and networking opportunities it offers. Updated information will be available in late August at the PTG website [<http://www.njacs.org/ptg.html>].

Date: **Wednesday, October 29, 2008**

Time: 1:00 PM to 6:30 PM

Place: NJIT Campus Center, Grand Ballroom, Newark, NJ

Cost: With early registration (**by October 15, 2008**): Members: \$40; Non-members: \$50; Students: \$25; free for NJIT students and staff with ID.

After October 15, 2008: Member, \$45; Non-member, \$55; Student, \$30.

Early registration and poster submission deadline is **October 15, 2008**. Online registration will start in late August at <http://www.njacs.org/ptg.html> OR send your full contact information along with a check made payable to NJACS-Polymer Group to Dr. Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928, with the appropriate amount.

Directions:

Can be found at the NJIT website (<http://www.njit.edu/about/visit/gettingtonjit.php>)

12

THE INDICATOR-SEPTEMBER 2008

POSTER SESSION & MIXER

Organizer: Dr. Bin Wei (ICI National Starch and Chemical) (bwei01@gmail.com)

EXHIBITS & COMMERCIAL POSTERS

Organizer: Dr. Nicole Harris (Sun Chemical) (nicole.harris@sunchemical.com)

Sponsors: ExxonMobil; Church and Dwight. Society Co-sponsors: ChemPharma, ACS North Jersey Local Section.

Endorsing Organizations: NJIT Medical Device Concept Laboratory, NYSTAR sponsored College of Staten Island CUNY Center for Engineered Polymeric Materials.

SPEAKER AT NEW JERSEY SCIENCE CONVENTION

The **Teacher Affiliates** of the North Jersey Section of the American Chemical Society, are sponsoring a special guest speaker, John Fortman, to present two programs on **October 14th and 15th** as part of the NJ Science Convention. John is a very engaging speaker, having presented hundreds of programs throughout the US and Canada. John is a retired college professor who received numerous teaching awards and brings with him a wonderful sense of humor.

On Tuesday he will present "The Science of Flight" and on Wednesday, "America's Funniest Chemical Videos".

Register at www.njsc-online.com/ and plan to attend these programs.



Bruker Daltonics

Hit the Target

... with sub-ppm confidence on the Bruker micrOTOF-Q™ for empirical formula determination

www.bdal.com - (978) 663-3660

think forward ESI-Qq-TOF MS



DuPont Analytical Solutions

From rapid, routine testing to complex problem-solving. One of the world's largest, and most diverse analytical laboratories, with the experience to solve your analytical challenges in :

Electronic Materials • Personal Care • Catalysis • Coatings, Pigments, and Adhesives
Specialty Chemicals • Films and Packaging • Pharmaceuticals • Plastics • Fibers • Textiles

DuPont Analytical Solutions
P.O. Box 80302
Wilmington, DE 19880-0302
Phone: (302) 695-1018

e-mail: DASolutions@usa.dupont.com
web: <http://analyticalsolutions.dupont.com>
FAX: (302) 695-1717

Contact us for all your analytical needs.



THE INDICATOR-SEPTEMBER 2008

13

CHEMIST BECOMES A HISTORIAN

Jeannette Brown, a retired organic medicinal chemist, was one of the many authors of the short biographies that have been selected for publication in the new series of books "African American National Biography" (AANB) published by Oxford University Press.

"African American National Biography" is a joint project of the W. E. B. Du Bois Institute for African and African American Research at Harvard University and Oxford University Press. It covers a broader range of African American lives than ever before depicted. It lists the lives of 41,000 individuals both the famous and ordinary people. It is edited by Dr. Henry Louis Gates Jr. and Evelyn Brooks Higgenbottom of Harvard University.

The eight volume set of books contains the listing of only nineteen chemists and chemical engineers, twelve female and seven male. Ms. Brown contributed the biographies of six women chemists and chemical engineers, including Dr. Marie Daly, the first African American woman to receive a PhD in chemistry, and Jennie Patrick, the first African American woman to receive a PhD in chemical engineering. Dr. Daly was Ms. Brown's inspiration for becoming a historian of African American women chemists. Ms. Brown met Dr. Daly at a local American Chemical Society meeting and realized that she was talking to a person whose story needed to be told. Dr. Daly was on the research team of Mirsky and Alfrey at Rockefeller Institute (now University) worked on discovering the amino acid precursors to the discovery of DNA. The work of this research team was mentioned in Dr. Watson's Nobel Prize speech. Dr. Jennie Patrick had to undergo racial prejudice in order to prove to the world that she deserved to become the first African American woman to receive a PhD in chemical engineering. During her career in corporate America she was the first to design a pilot plant for supercritical fuel extraction and became a research manager of the first fundamental research engineering group of another corporation. The other women whose biographies are included AANB and were written by Ms. Brown are Gloria Long Anderson, Reatha Clark King, Esther Avilla Hopkins, and Margaret Ellen Mayo Tolbert. Since all of the women are currently alive with the exception of Dr. Daly, Ms Brown was able to collect their oral histories.

The editors of African American National Biography (AANB) indexed all scientists and engineers under the heading of technology. Ms. Brown extracted the list of chemists and chemical engineers from this list and created an index for the use of other chemists.

The biography of Ms. Brown is one of the chemists listed in AANB.

AANB is the first publication of the research of Ms. Brown in her history of African American women chemists' project. She has given numerous lectures and talks about her research and she is in the process of writing a book about these remarkable women. Her book will become a reference book which will put the lives of these women in one volume for use by students of the history of science, African American history and women's history.

Ms. Brown has also taken on a new task by becoming the historian of the American Chemical Society's Women Chemist Committee.

Chemists and Chemical Engineers in "African American National Biography"

Name	Chem./Chem E.	Vol #	Page #	Gender	Author
Abron, Lilia Ann	Chemical E.	Vol 1	pp 21-22	Female	Sherril J. Norris
Anderson, Gloria Long	Chemist	Vol 1	pp 125-126	Female	Jeannette Brown
Brady, St. Elmo	Chemist	Vol 1	pp 531-532	Male	Audra J. Wolf
Brown, Jeannette	Chemist	Vol 1	pp 617-619	Female	Margaret E.M. Tolbert
Daly, Marie Maynard	Chemist	Vol 2	pp 535-536	Female	Jeannette Brown
Ferguson, Lloyd Noel	Chemist	Vol 3	pp 251-252	Male	Robert Fikes, Jr.
Hawkins, Walter Lincoln	Chemical E.	Vol 4	pp 128-129	Male	Robert Johnson, Jr.
Hill, Henry Aaron	Chemist	Vol 4	pp 234-235	Male	Kenneth R. Manning
Hill, Mary Elliott	Chemist	Vol 4	pp 236-237	Female	Billy Scott
Hopkins, Esther	Chemist	Vol 4	pp 307-308	Female	Jeannette Brown
Jemison, Mae	Chemical E.	Vol 4	pp 521-522	Female	Martha Ackmann
Julian, Percy Lavon	Chemist	Vol 5	pp 30-31	Male	Charles W. Carey, Jr.
King, Reatha Clark	Chemist	Vol 5	pp 107-108	Female	Jeannette Brown
Massie, Samuel Proctor, Jr.	Chemist	Vol 5	pp 431-433	Male	Debra A. Varnado
McBay, Henry Cecil Ransom	Chemist	Vol 5	pp 460-461	Male	Rosalyn Mitchell Patterson
McBay, Shirley Mathis	Chemist	Vol 5	pp 461-463	Female	Olivia A. Scriven
Patrick, Jennie R.	Chemical E.	Vol 5	pp 263-264	Female	Jeannette Brown
Robeson, Eslanda Cardozo Goode	Chemist	Vol 6	pp 632-633	Female	Ann Zeidman-Karpinski
Tolbert, Margaret Ellen Mayo	Chemist	Vol 7	pp 613-614	Female	Jeannette Brown

12 Females, 7 Males, total 19 Chemists and Chemical Engineers
By Jeannette Brown, copyright protected 2008

EARTH DAY — FDU STYLE

Fairleigh Dickinson University celebrated its second annual Green Day on April 14. A variety of activities highlighted the University's venture into environmental sustainability. Green Day activities included student presentations and posters, workshops, a green vendor fair, an address from FDU President J. Michael Adams and a reception and award ceremony to complete the day.

The FDU Green Club, FDU SAACS along with students and faculty organized the event and the entire campus community celebrated going green. In addition, Montclair Kimberly Academy students joined in on the celebration and presented their work on environmental issues as well. It was a wonderful event enjoyed by all. A special thanks to North Jersey ACS for being a part of the vendor event.



Bill Suits talking to FDU students at the Green Vendor Fair.



Tisha Hutchinson presenting her poster on Green Day.



Jay Charlebois judging a student poster presentation.



The FDU rock painted for Green Day with the Vendor Fair in the background



The American Chemical Society sponsored an illustrated haiku contest for Earth Day 2008. The two haikus submitted for judging by Shelter Island High School students were designed by Jodi Bentivegna and Gina Giambruno. Gina (pictured in the middle) was awarded a \$50 cash prize. Jodi (left) won an "honorable mention" in this national contest, and received a \$100 cash prize. Their chemistry teacher, Ann Marie Galasso is pictured with the two students.

SCENES FROM THE NORTH JERSEY SECTION

ACS 2008 Recognition for National Chemistry Week Award



Bobbi Gorman (left) and Anita Brandolini (ctr) congratulate Val Kuck for receiving the ACS 2008 Recognition for National Chemistry Week.

Salute to Excellence Award to Fairleigh Dickinson University



Accepting the Award is Amber Charlebois, Chemistry Teacher, and Ken Greene, University Provost. John Penna is presenting the Award.

NJACS Pro Bono Award



Dr. Alan Goldman from Rutgers University and Bobbi Gorman, retired high school chemistry teacher, receive the NJACS 2008 Pro Bono Award.



Burton C. Belden Distinguished Service Award

NJACS Teacher Affiliates Harvey J. Russell Award



Kevin Duffy (left) and Chris Schweighardt from the Pearson Curriculum Group receive the 2008 NJACS Teacher Affiliates Harvey J. Russell Award from Bettyann Howson past chair of the Teacher Affiliates.



Maureen Chan (left) presents the NJACS 2008 Burton C. Belden Award to Valerie Kuck.

MORE SCENES FROM THE NORTH JERSEY SECTION

Edward J. Merrill Awards



George Gross, Chair of the NJACS Education Committee, with the 2008 Merrill Award winner Mridula Bajaj a chemistry teacher at Science Park High School. At the right is Jennifer Bernardes, the student who nominated Mridula.

Sr. Marian Jose Smith Excellence in Chemical Education Award



John Penna (right) presents the NJACS 2008 Sister Marian Jose Smith Excellence in Chemical Education Award to Dr. Wyatt Murphy from Seton Hall University.

ACS Chemistry Olympiad North Jersey Winners and Teachers 2008



Bottom Row, Jayasee Sankar, Bergen County Tech, teacher; Paul Sekular, J.P. Stevens, teacher; Michael Amendola, Watchung Regional, teacher; Ray Baylouny, FDU Olympiad Organizer. Second row, Samuel Baskinger, teacher, Parsippany; Paul Kimmel, teacher, East Brunswick; Kiesha Stephan, teacher, Highland Park; Theresa Farinella, teacher, South Brunswick; Martha Bailey, teacher, Westfield. Back row, Heather Xu, student, Parsippany HS; Ryan Lu, Yuxin Xie* and Alex Krasner, students, East Brunswick HS; Kostyantyn Mazur, student, Highland Park HS; Michael Li and William Pan, students, South Brunswick HS; Timothy Barnam, student, Watchung Regional; David Zhao, student, J.P. Stevens HS; Eric Liu, student, Watchung Regional; Yixiao Wang,* student, Westfield HS; Matthew Mayers and Johanna Lee, students, Bergen Academy. * These students will attend the Chemistry Olympiad Camp at the Air Force Academy.

New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS GROUP

Clean, Green & Sustainable: Where Is the Business?

Speaker: Dr. Faruq Marikar
President, Nanobiz, LLC

Date: Thursday, September 11, 2008

Times: Cocktails 11:30 AM
Luncheon 12 noon
Presentation 1:15 PM

Place: Club Quarters
40 West 45th Street
New York, NY

Fees: \$45 discount price for Members who reserve by **Tuesday, September 9th** (12 noon).
\$55 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price. Call Vista Marketing at (917) 684-1659 or e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal): go to our Website: <http://www.nyacs-cme.org/> and click the proper "Buy Now" button (\$45 for Members; \$55 for Non-Members), below the credit card logos.

Save the Date

Thursday, December 4th, 2008

Full-Day Conference
Water: The Next "Oil"

Third Annual Energy & Resources Conference will take place this year at the historic Con Edison Building, 4 Irving Place (at 14th Street), New York, NY.

HIGH SCHOOL TEACHERS TOPICAL GROUP

Using the Digital Resources of the Journal of Chemical Education

Speaker: Gail Horowitz
Dept. of Chemistry
Yeshiva University

Ms. Horowitz received a BA in Chemistry from Barnard, MA in Chemistry from Columbia and is a Ph.D. Candidate in Science Education (expected May 2009) at Teachers College. She has been a Chemistry Instructor and Laboratory Coordinator at Yeshiva College, Yeshiva University since 1990.

Date: Friday, September 19, 2008

Times: Social and Dinner — 5:45 PM

Place: No reservations required
Caffe Pane e Cioccolato
10 Waverly Place at Mercer Street (South-west corner)
New York, NY
(You eat, you pay cash only, no credit cards.)

Times: 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.

NY-ACS BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP

Novel Approaches to 7-transmembrane Receptor Therapeutics

Organizers: Conrad Cowan
Cara Therapeutics

Frederick Monsma
Schering-Plough
Research Institute

Jose Perez
Pfizer Global Research
& Development

G protein-coupled receptors (GPCRs) are high impact therapeutic targets, constituting 50% of drug targets and generating annual drug sales above 50 billion dollars (Lundstrom K, 2006). Historically, most drug discovery campaigns have sought to identify compounds that specifically activate the receptor (agonists), or block activation by an endogenous compound (antagonist), both via a G-protein dependent signaling pathway.

This is a full day event.

Date: Tuesday, September 23, 2008

Time: 9:00 AM – 5:00 PM

Place: New York Academy of Sciences
7 World Trade Center

250 Greenwich Street – 40th Floor
New York, NY

Space is limited. Reserve a seat on-line at: <http://www.nyas.org/events>

NYAS Members and BPDG Affiliates may attend BPDG meetings free of charge.

Non-members may attend for a fee of \$20 per event; Student Non-members for \$10.

To become a Member of the Academy, visit <http://www.nyas.org/landing.html>



NEW YORK NANOSCIENCE DISCUSSION GROUP

Hosted by: The Department of Chemistry
New York University

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.

Date: Tuesday, September 23, 2008

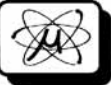
For more information, contact: James Canary (james.canary@nyu.edu)
<http://www.nyu.edu/projects/nanoscience>

50 & 60 YEAR MEMBERS

The New York Section celebrated the 50 and 60 Year ACS Members with a luncheon at Tavern on the Green in Central Park.



(Standing left): Marc Walters, 2008 NY Chair; (standing right): Ralph Stephani - Luncheon coordinator.



Micron Analytical Services

COMPLETE MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

SEM/EDXA, TEM/SAED, EPA/WDXA, XRD, XRF, ESCA, AUGER, FTIR, DSC/TGA

3815 Lancaster Pike Wilmington DE. 19805
E-Mail micronanalytical@compuserve.com

Voice 302-998-1184. Fax 302-998-1836
Web Page: www.micronanalytical.com

HUDSON-BERGEN CHEMICAL SOCIETY

The Hudson-Bergen Chemical Society held its 10th Annual Undergraduate Research Symposium and Student Award Night on April 25, 2008.



(Left to right): Professor Mihaela Leonida, Fairleigh Dickinson University (Chair-Elect HBCS and Organizer), Dr. Scott Rawls, speaker, Temple University School of Pharmacy and Medicine, who spoke on "Antibiotics Protect the Brain and Combat Opioid Addiction."



(Left to right): Michal Vascak student, Professor Rob Mentore, and Carla Pallay student, all from Ramapo College of New Jersey.

(Photos courtesy of Dr. Grace B. Borowitz)

WESTCHESTER CHEMICAL SOCIETY

The Westchester Chemical Society presented its Distinguished Scientist Award to Dr. David Fairhurst of the International Partnership for Microbicides and the Salutes to Excellence Award to Dr. Ellen Weiser of Pace University and Dr. Peter Corfield of SUNY-Purchase. The College student awards for chemistry were also presented prior to the dinner to honor all the awardees.



(Standing): Mary Cowman, director; Joan Laredo-Liddell, co-chair WCS; Jean Delfiner, co-chair WCS; Rolande Hodel, Treasurer; (seated) Dr. Ellen Weiser, Dr. David Fairhurst, Dr. Peter Corfield.

College student awardees and their professors.



NCW - HARVEY C. RUSSELL INCLUSION AWARD

David Sherman, New York Section coordinator for National Chemistry Week, received the 2008 Harvey C. Russell Inclusion Award from Indra Nooyi, Chairman & CEO, PepsiCo. For the past three years, "Dave has championed Pepsi-Cola R&D's participation in the ACS National Chemistry Week, where New York metro area children share in hands-on demonstrations led by Pepsi Scientists. Each year, hundreds of children and their families share in a Day of Science activity, meet a diverse array of scientists and take away the idea that science can be a career. The 2007 NCW theme was the "Many Faces of Chemistry - Celebrating the Diversity of the Discipline and its Practitioners." Through Dave's efforts, in 2008 the Pepsi R&D staff at NCW will be composed of technical experts illustrating the wide scope of diversity at R&D and demonstrating that people from many backgrounds can work together and do great things when they have a common goal -

"exploring the wide world of technology to make products that are enjoyable and healthful."

The New York Section appreciates the time, enthusiasm and talent that Dave brings to NCW, which is held at the New York Hall of Science. NCW is on Saturday, October 25, 2008.



Joan Laredo-Liddell, chair of NCW, admires the Harvey C. Russell Award received by David Sherman, coordinator of NCW.

JAMES BRYANT CONANT AND ORGANOMETALLIC CHEMISTRY AWARDS

The New York Section sends congratulations to Richard Goodman, who received the James Bryant Conant Award in High School Chemistry Teaching, and Gerard F. R. Parkin of Columbia University and a past chair of the NY Section, who received the ACS Award in Organometallic Chemistry. Richard and Jed received their awards at the Awards Ceremony and General Meeting of the Society on April 8, 2008 in New Orleans.



(Left to right): Joan Laredo-Liddell, Richard Goodman, Jed Parkin, Jean Delfiner. Jean and Joan are the co-chairs of NY Section's Nichols Teacher Award.

SR. MARY VIRGINIA ORNA RECEIVES PROFESSOR HENRY HILL AWARD

The New York Section congratulates Sr. Mary Virginia Orna, OSU on receiving the Professor Henry Hill Award at the New Orleans ACS meeting.

Jean Delfiner, Sr. Mary Virginia, Joan Laredo-Liddell, Janan M. Hayes, ACS-Director-at-Large.



PFIZER, INC. NATIONAL HISTORIC CHEMICAL LANDMARK



Thomas H. Lane, President-elect of the American Chemical Society; Marc A. Walters, Chair of NY Section; John Sharkey, NY Historian; Jeffrey Kindler, Chairman and CEO of Pfizer, Inc.

New York Section members at the Pfizer, Inc. National Historic Chemical Landmark presentation.



CELEBRATING THE RETIREMENT OF SR. MARY MAIER



Members of the New York Section (standing-left to right): John Halpin, Margaret Mandziuk, Nancy Tooney, Jill Rehmann, Jean Delfiner; (sitting-left to right): Joan Laredo-Liddell, Sr. Mary Maier, Hiroko Karan.

Position Available

LAB SPECIALIST POSITION OPEN

The Lower East Side Preparatory H.S. is still in search of a new lab specialist. We have a brand new \$2 million lab and a retiring lab specialist. We have a great school and our students excel in science. If you know anyone or are interested yourself, please contact me.

Mr. Rene Anaya, Assistant Principal
Lower East Side Preparatory High School
145 Stanton St. 4th Floor
New York, NY
212-505-6366 x4434
Fax: 212-260-0813
RAnaya@schools.nyc.gov

Conferences on the Discovery, Development & Production of Pharmaceuticals and Therapeutics

2008 FALL CONFERENCE SCHEDULE

PK/PP for Medicinal Chemists

Sept 7 - 9, 2008 • Cambridge, MA

14 case studies from big pharma and biotech companies on PK/PP in Immunology and Metabolic Diseases, PK/PP in CNS and Oncology, and PK/PP in Exploratory Development. Each session will be highlighted with a case study from the medicinal chemistry perspective that demonstrates the value of understanding PK/PP relationships in the design of better drug molecules.

Process Chemistry in the Pharmaceutical Industry

Sept 28 - 30, 2008 • Cambridge, MA

Case studies from big pharma, sessions on: what pharma can learn from crop protection process R&D; the engineering aspects of process R&D, including kinetics, process parameters, process analytical technology, and green chemistry; and recent advances from academia.

Translational Biomarkers: Pathways to Phase II Survival

October 5 - 7, 2008 • Philadelphia, PA

Sessions on: translatable target engagement biomarkers (imaging and non-imaging biomarkers); mechanism biomarkers, including safety; and clinical biomarkers, including disease biomarkers and regulatory acceptance. In each session, four speakers will present case studies and provide their perspective on the topic. Also, speakers from the NIH Biomarkers Consortium, the CDER/FDA and FDA.

Topics and Tactics in Current Drug Design

Oct 19 - 21, 2008 • Cambridge, MA

Sessions topics: optimizing drug-target interactions; reducing drug metabolism and avoiding metabolic activation; circumventing off-target sources of drug failure; and pharmaceutical properties and tactics for enhancing oral drug delivery. Each session will provide a comprehensive synopsis of the kinds of tactics and strategies that have led to the optimization of drug-target interactions against the backdrop of enhancing drug safety and compound delivery in vivo.

Organic Reactions and Syntheses

October 26 - 28, 2008 • Philadelphia, PA

Speakers: E. Jacobsen, G. Fu, F. Fang, C. Senanayake, T. Rovis, A. Pfaltz, J. Bäckvall, T. Zhang, M. O'Brien, A. Charette, E. Carreira, R. Waltermire, J. Hawkins, A. Smith III, A. Wells

FOR MORE DETAILS ON EACH CONFERENCE AND TO REGISTER, PLEASE GO TO [ACS PROSPECTIVES.ORG](http://ACSPROSPECTIVES.ORG)



THE 40TH MIDDLE ATLANTIC REGIONAL MEETING

MARM 2008 was sponsored by the New York Section of the ACS and held at Queensborough Community College of the City University of New York in Bayside, New York, May 17–21, 2008. The General Co-Chairs were **Paris Svoronos** and **David Sarno**, both of QCC. The Program Co-Chairs were **Jack Norton** of Columbia University and **John Sowa** of Seton Hall University. **Frank Romano** of Agilent Technologies was the Treasurer. The technical program, plus the vendor expo, awards, social events, and numerous workshops have resulted in MARM becoming a premier professional meeting for chemists of diverse backgrounds.

The theme of the conference was **Chemistry and Health**, which was chosen because of the importance and impact of the health sciences in the New York metropolitan area. Several of the technical symposia were aligned with the theme, though by no means was the meeting restricted to this alone. All traditional fields of chemistry were represented along with special topics such as Chemistry and the Arts (with a tour of laboratories at the Metropolitan Museum of Art), Biotherapeutics, Green Chemistry, HIV/AIDS, Polymers in Medicine and Bioinspired Polymers, Metal Complexes in Chemotherapy and Diagnostics, to name a few. One and two-day symposia on Ionic Liquids, Computational Chemistry for the Health of Humanity and the Planet, Frontiers of Nanoscience and Nanotechnology, and Polymer Chemistry were all extremely successful.

MARM 2008 had two plenary speakers. **Professor Ronald Breslow** of Columbia University presented "SAHA (Vorinostat), An FDA Approved Anticancer Compound with a Novel Mechanism of Action" on Sunday, May 18 and **Professor Roald Hoffmann** of Cornell University presented "The Chemical Imagination at Work in Very Tight Places" on Monday, May 19. Dr. Breslow was introduced by **Marc Walters** (NYU), 2008 Chair of the NY-ACS, followed by **Manfred Philipp** (Lehman), CUNY Trustee, and then **Jack Norton**. Dr. Hoffmann was introduced by **Eduardo Marti**, QCC President, followed by **Matthew Goldstein**, CUNY Chancellor, and then **John Sowa**. Each session was followed by a poster session and barbecue. Professors Breslow and Hoffmann were outstanding lecturers, wonderful meeting participants and were key attractions. We are grateful for their time and effort! They were kind enough to stay for the poster session and speak with many presenters.

The technical program was composed of 587 invited and contributed abstracts (216 posters) and the conference had nearly 1000 registrants. Attendees came from throughout the metropolitan area; from all points of the ACS Middle Atlantic Region, with a strong showing from the New York and North Jersey sections; from as far south as Florida, and west as California; and from countries around the world including Canada, Germany, Israel, Italy, Japan and Mexico. Vital session sponsorships came from 5 ACS Divisions and 28 other companies and organizations. Eight general corporate sponsorships and a two-day expo that attracted vendors from 21 regional companies financed coffee breaks, a complimentary lunch, facilities charges, the program book, gifts, and other services.

In addition to presenting a strong and diverse technical program, workshops and discussions were held for attendees from all backgrounds: students, academic and industrial chemists, high school teachers, entrepreneurs, job-seekers and future leaders. Programs for students and teachers were concentrated on Saturday and Sunday. MARM was kicked off with the 56th NY-ACS Undergraduate Research Symposium co-chaired by **Sharon Lall-Ramnarine** (QCC), **JaimeLee Rizzo** (Pace University), and **Alison Hyslop** (St. John's). URS presenters were given free registration to MARM. Also offered were a free POGIL workshop for chemical educators (organized by **Dave Hanson** of SUNY Stony Brook), laboratory probe ware workshops, and the first NY section Nichols Teacher Forum (organized by **Lew Malchick** of the High School Topical Group). Student Affiliates workshops were hosted by the St. John's SA chapter under the guidance of **Neil Jespersen** and featured **Jodi Wesemann** from the ACS Department of Higher Education. We were pleased to work with the US section of the Royal Society of Chemistry to close out the first night of MARM with their spring meeting, which featured a presentation on Astrochemistry by **Yorke Rhodes**.

Other local section members played important roles in MARM 2008. For example, the Regional Chemagitation Competition was organized by **Vijaya Korlipara** of St. John's. **Ron D'Amelia** of Hofstra University coordinated a fantastic Careers program that included two ACS Leadership Development workshops, resume reviews, a panel discussion on traditional and non-traditional careers, and a short course on Analytical Chemists in Industry. ACS District Director **Anne O'Brien** participated in several events, including a welcome lunch,

the Directors Breakfast, and the Awards Banquet. **Nancy Tooney** and **Hiroko Karan** organized a well-attended Women Chemists Committee Luncheon. And **Bill Suits** was everywhere, a tireless advocate, participant, and adviser for MARM!

The Awards Committee, chaired by **Jane Pepper** of Novartis, honored a variety of outstanding individuals and groups. The Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences was awarded to the Chemistry Department of Queensborough Community College. The Regional Industrial Innovation Award was awarded to **Dr. Thomas P. Selby**, **Ms. Charlene G. Sternberg**, **Dr. James F. Berezna**, **Mr. Reed A. Coats**, and **Mr. Eric A. Marshall**, of the Proquinazid Team of DuPont Crop Protection. The E. Ann Nalley Regional Award for Volunteer Service to the American Chemical Society awarded to **Dr. N. Bhushan Mandava** (Mandava Associates, LLC). The E. Emmet Reid Award in Chemistry Teaching at Small Colleges in the ACS Mid-Atlantic Region was awarded to **Dr. Claude Yoder** (Franklin & Marshall College). The ACS Division of Chemical Education Middle Atlantic Region Award for Excellence in High School Teaching was awarded to **Ms. Claire Miller** (Madison High School). The Chromatography Forum of Delaware Valley presented its 2008 Student Awards to **Michael J. Bozym** and **Casey M. Mulcahy** (West Chester University), **James D. Vasta** (Lafayette College), **Christopher J. Morrison** (Widener University), and **Alyson M. Cobb**, **Sarah A. Schubert**, and **Ranasinghe K. Sampath** (Bucknell University).

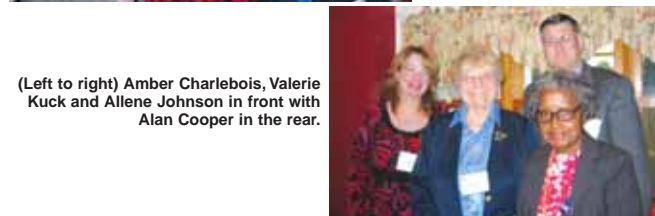
MARM 2008 had many "firsts": it was the first ever MARM held in New York City, it was the first MARM hosted by the City University of New York, and it was the first MARM hosted by a community college. The Organizing Committee is especially grateful to Queensborough Community College. Without the support of their administration and the offices of buildings & grounds, academic computing, marketing, security, catering, etc., MARM 2008 could not have been the success it was. Special thanks also go to **Bill Suits**, our constant advisor, and past MARM Chairs **Don Mencer**, **Sharon Haynie** and **Tony Addison**. And finally, we are indebted to the many volunteers who organized sessions, judged awards nominations, and lent a hand wherever they could – especially the chemistry students of QCC, ever visible in their red and gold MARM t-shirts and always willing to help.

We received an overwhelmingly positive response to MARM 2008 and we thank you all for your participation. Stay tuned for MARM 2009: Chemists Advance Science Frontiers! Until then, please visit www.marmacs.org for pictures from MARM 2008.

Respectfully submitted,
David Sarno and Paris Svoronos
General Co-Chairs, MARM 2008



(Left to right) Bill Suits, Amber Charlebois, Valerie Kuck and Alan Cooper.



(Left to right) Amber Charlebois, Valerie Kuck and Allene Johnson in front with Alan Cooper in the rear.

WOMEN CHEMISTS COMMITTEE

The Women Chemists Committee Luncheon was held at MARM on Tuesday, May 20. The organizers were Hiroko Karan and Nancy Tooney. The speaker was Jodi Wesemann, from ACS Department of Higher Education. Her presentation was "Fostering Access, Success, and Excellence."



Hiroko Karan, Nancy Tooney, Jodi Wesemann, Joan Laredo-Liddell, Margaret Mandziuk.

Others

THE 30th ANNUAL PRINCETON ACS FALL ORGANIC CHEMISTRY SYMPOSIUM

"Discovery of Ixemptra™ (Ixabepilone), an Epithilone Analog for Treatment of Metastatic Breast Cancer"

Speaker: Dr. Gregory Vite
Bristol-Myers Squibb

"Synthesis of Natural Products with Antitumoral Activity"

Speaker: Professor Janine Cossy
The Laboratory of Organic Chemistry
École Supérieure de Physique et de Chimie Industrielle de la Ville de Paris

"Catalytic Organometallic Carbon-Heteroatom Bond Formation"

Speaker: Professor John F. Hartwig
Department of Chemistry, University of Illinois

"The Origin of Homochirality on Earth"

Speaker: Professor Ronald Breslow
Department of Chemistry, Columbia University

Date: Friday, September 19, 2008

Times: Registration 12:00-1:00 PM
Symposium 1:00-8:30 p.m.

Place: Forsgate Country Club, Monroe Township, New Jersey

Cost: Registration/Reception/Dinner: \$90.00 (\$25.00 students/postdoc)

Name: _____ Telephone/Fax: _____

Affiliation: _____

Address: _____

Email: _____

If Student/Postdoc, list Advisor: _____

Vegetarian dinner required (check box)

Return to: Denise D'Auria
Princeton University
Chemistry Dept., Frick Labs
Princeton, NJ 08544-1009

Please make checks payable to:
"Princeton ACS Fall Organic Symposium"

MONEY IS DUE BY AUGUST 22, 2008

Please visit the symposium website at <http://www.pacsfocs.org> for more information.
(There is currently no on-line registration. Checks must be mailed to the above address.)

RUTGERS UNIVERSITY GRADUATE SEMINAR SERIES — FALL 2008

Materials Science & Engineering

September 9

"Silica-based Nanostructures and the Great Pyramid of Khufu"
Prof. Michel Barsoum
Materials Engineering, Drexel University
Philadelphia, PA
barsoumw@drexel.edu

September 16

"Solution Plasma Spray"
Prof. Eric Jordan
Mechanical Engineering
University of Connecticut, Storrs, CT
jordan@enr.uconn.edu

September 23

"NanoMaterials-based Transparent Conductors"
Dr. James V. Guineen
Honeywell, Inc., Morristown, NY
jim.guineen@honeywell.com

Date: Tuesdays

Times: Refreshments 11:45 AM
Seminar 12:10 PM

Place: Center for Ceramic Research
Room 201, 607 Taylor Road
Busch Campus
Piscataway, NJ

*Note, titles are tentative at this time.

Questions: contact Lisa C. Klein,
licklein@rci.rutgers.edu or 732 445-2096



LABORATORY ROBOTICS INTEREST GROUP

Winners of the 2008 Annual Student Poster Contest

Since 2005 the Mid-Atlantic Chapter of the Laboratory Robotics Interest Group has sponsored a college-level student poster contest in conjunction with its annual technology exposition held each May. In 2007 the contest was expanded to include a high school division.

The group's annual technology exposition is one of the largest scientific gathering held in New Jersey. Over 500 scientists and 90 laboratory technology companies attend the event. Holding the student poster contest as part of this event gives the students a chance to meet working scientists and

share their research. For the members of the Laboratory Robotics Interest Group the student posters are an excellent way to learn about the types of research occurring in the schools.

Dr. Mel Reichman, a member of the organization's board, met with the high school students before the start of the meeting and gave a brief talk on careers in science.

Students representing Fairleigh Dickinson University, Marymount Manhattan College, Montclair State University, and William Paterson University were entered in the 2008 competition. High school presenters came from the John P. Stevens High School, in Edison, New Jersey, the Morristown Friends School and the Morristown High School.

In addition to the cash prizes this year the LRIIG added a new award category to the judging. The Members' Choice Award was determined by ballots submitted by the individual members. Awards were made in both the High School and College Divisions.

The winners in the **COLLEGE DIVISION** were:

FIRST PLACE, Medha Persaud, "Modification of Nanofibers with Growth Factors to Create an Artificial Basement Membrane for the Culture of Astrocytes"

Robert Wood Johnson Medical School, Department of Pharmacology, Faculty Advisor: Sally A. Meiners.

Medha's research concerned the optimal conditions for growing cells in the laboratory that could then be implanted in the spinal cord to help repair damage. This is promising technology for the thousands of persons suffering from spinal cord injuries.

SECOND PLACE, Marc Lindner and Andrew Glowacki, "A Molecular Dynamic Study of the Effect of a Glycine to Serine Point Mutation on the Structure of Collagen-like Model Peptides Containing a Reputed Stable Region of Collagen II"

Becton College - Fairleigh Dickinson University, Faculty Advisor: Gloria Anderle

Marc and Andrew's project modeled the behavior of this biochemical system.

THIRD PLACE, Luis Posadas, "Binary Vector Development for GmGRP Silencing in Soybeans"

(continued on page 30)

LABORATORY ROBOTICS INTEREST GROUP

(continued from page 29)

William Paterson University.

Luis' research is part of an ongoing effort to understand the ways in which soybean plants defend themselves from insects and diseases.

HIGH SCHOOL DIVISION

FIRST PLACE, Mike Stobbe, "How Much is Too Much Caffeine?"

Morristown Friends School, Faculty Advisor: Drew Newman

Mike administered solution of caffeine to colonies of *Daphnia*, a type of plankton, and studied the effect on heart rate.

SECOND PLACE, Paige Diamond, "Color Perception in Memory and Learning Using Color Overlays as it Relates to Fifth Graders"

Morristown High School, Faculty Advisor: Erin Colfax

Because color helps the brain form complex image memories more efficiently, Paige's research examined if specific colors can enhance this process. Volunteers read a story the pages of which were covered with transparent color overlays. The experiment then determined which color gave the best memory retention.

THIRD PLACE, Shree Agrawal, "The Effect of UV Light Exposure on Amylase-producing Bacteria on the Nucleotide Sequence"

John P. Stevens High School, Edison NJ

Shree's project subjected bacteria for ultraviolet light and measured the effects on the rate of genetic mutation. This research explores the relationship between cell damage and ultraviolet light.

HONORABLE MENTIONS (HIGH SCHOOL DIVISION):

Morgan Cole, "Long and Short Term Memory Effects on the Content of Teenage Dreams by Exposure to Visual Pre-sleep Stimuli"

Sarah Connell and Jessica Walker, "Just Spit Now, Ask Questions Later, Toothpaste Flavorings as Natural Bactericides"

Anna McCabe, "Determining Canine Breed Success in Evaluations for Entrance into Animal Assisted Therapies and Activities"

Jacob Montgomery and Justin Stark, "Sure You Want to Use That Fertilizer?"

MEMBERS' CHOICE AWARDS:

Stephanie Allen and Federico Floridi, "Shapes and Size Distribution of Pacific Seamounts"

Marymount Manhattan College, Faculty Advisor: Kelsey Jordahl

Stephanie and Federico are physics students who used oceanographic data to construct three dimensional maps of the underwater mountains in the Pacific Ocean. These maps can be used to understand the geologic forces that created the mountains and that operate under the deep ocean.

Morgan Cole, "Long and Short Term Memory Effects on the Content of Teenage Dreams by Exposure to Visual Pre-sleep Stimuli"

Morristown High School, Faculty Advisor: Erin Colfax

Can looking a picture of a garbage pail cause you to dream about it? Morgan asked twenty teenagers a picture of one to study each night before bed and then measured how often they dreamt about it.

For information about the student poster contest please contact Kevin Olsen at OlsenK@Mail.Montclair.Edu or 973-655-4076.

Call for Papers/Posters

THIRD ANNUAL ENERGY & RESOURCES CONFERENCE

Water: The Next "Oil"

Third Annual Energy & Resources Conference will take place this year on Thursday, December 4, 2008, at the historic Con Edison Building, 4 Irving Place (at 14th Street), New York, NY.

Co-sponsors for this meeting now include the Metro New York Section of the American Institute of Chemical Engineers and the Bronx Chapter of the New York State Society of Professional Engineers.

Interested in presenting a paper on this topic? Please send an abstract (200-300 words) of your proposed paper, the implications of the material being discussed, and your qualifications to present the material to: aicheny@mac.com

POLYMER TOPICAL GROUP

Functional Packaging Through Chemistry

This symposium is presented by the Polymer Topical Group of the North Jersey Section of the American Chemical Society.

This event features presentations, posters and networking opportunities of interest to diverse professionals involved in the functional packaging industry. Whether you are from academia or industry, this is a good opportunity for you to showcase your

research, network with other people and contact possible employers and clients.

In addition to posters focusing on packaging, general polymer posters are being solicited. We are looking for poster submissions relating to polymer research in diverse areas such as green polymers, advanced polymeric materials, polymer characterization, etc. Any registered conference attendee may sign up to present a poster on any polymer-related topic.

(See pages 12 & 13 for details.)

Professional/Product Directory

Chemical Analysis Services

CHEMIR
Analytical Services

- Materials Identification
- Deformulation
- Polymer Analysis & Testing
- Failure Analysis
- Consulting Services

ISO 9001 Certified

800.659.7659
www.chemir.com




Eastern Scientific
easternsci@aol.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



NJIT
New Jersey 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.york.njit.edu/lab

158 Warren Street
Newark, NJ 07102

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

Custom Synthesis Services

Challenge us with your custom synthesis needs. Good quality & fast delivery services with competitive prices, satisfaction guarantee.

Syntask Laboratories Inc.
7 Deer Park Dr. Ste M5, Monmouth Junction, NJ 08852
Phone: (732) 355-9988; Fax (732) 355-9980 syntasklab@verizon.net

Fast and Accurate Chemical Analysis

LC/MS/MS, GC, GC/MS, HPLC, CE, dissolution, Chiral separations, post column derivatizations, semi-prep purification, polymer analysis, impurity profiling, flavor/fragrance analysis, formulation development.

PRIMERA ANALYTICAL Princeton, NJ 08540
Fon: 609-921-7715 Fax: 609-921-7716
E: info@primera-corp.com W: www.primera-corp.com



Elemental Analysis

HUFFMAN
LABORATORIES, INC.
Quality Analytical Services Since 1936

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

Phone: (303) 278-4455
FAX: (303) 278-7012
chemistry@huffmanlabs.com
www.huffmanlabs.com

Professional/Product Directory

work smarter, not harder...
with physico-chem drug properties

from the experts at **pION INC**
Analytical Services include:

- * pka, log P * PAMPA
- * solubility * stability testing
- * dissolution * excipient screens

+1 781-935-8939
www.pion-inc.com
10% off by mentioning this ad

SCHWARZKOPF Microanalytical Laboratory

Elemental & Trace Analysis
Organics, Inorganics
Organometallics
Metals by AA & Graphic Furnace
Functional Grps. - Mol. Wt.
Calorimetry
Total S. F. Halogens TOX
Coneg Testing Custom Analysis
56-19 37th Ave. Woodside, N.Y. 11377
(718) 429-6248
Schwarzkopfmicro@aol.com

NMR Service 500MHz

*Mass
*Elemental Analysis
NuMega Resonance Labs
Tel: (858) 793-6057

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.

SEARCHING FOR THAT SPECIAL JOB?

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

- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

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

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

Ad Index

ANALYTICAL

Bruker Daltonics Inc.	13
Chemir Analytical Services	29
Columbia Analytical Services	10
DuPont Analytical Solutions	13
Huffman Laboratories, Inc.	29
IQSynthesis	11
Micron Inc.	18
New Jersey Institute of Technology	29
NuMega Resonance Labs.	30
pION	30
Primer Analytical Solutions Corp.	29
Robertson Microlit Labs	32
Schwarzkopf Microanalytical	30
Syntask Laboratories, Inc.	29

EDUCATION

ACS ProSpectives Conferences	23
City University of New York	4
New York University	31
Seton Hall University	9
Stevens Institute of Technology	2

EQUIPMENT

Eastern Scientific Co.	29
Mass Vac, Inc.	32

GENERAL

ACS-NY/NoJ Sections	9
ACS-NY/NoJ Sections	30
ACS-NY/NoJ Sections	30

NEW YORK UNIVERSITY CHEMISTRY



FALL 2008 COLLOQUIUM SERIES

September 5 Host: Jerschow	Song-I Han	University of California at Santa Barbara
September 12 Host: Arora	Alison J. Frontier	University of Rochester
September 19 Host: Arora	Keith Woerpel	University of California at Irvine
September 26 Host: Kallenbach	Vincent P. Conticello	Emory University
October 3 Host: Vologodskii	Vincent Croquette	Ecole Normale Supérieure
October 10 Host: Kallenbach	Ann McDermott	Columbia University
October 17 Host: Tuckerman	Teresa Head-Gordon	University of California at Berkeley
October 24	Louis Brus	Columbia University
October 31 Host: Jerschow	Tatyana Polenova	University of Delaware
November 7 Host: Bacic	Kenneth Jordan	University of Pittsburgh
November 14 Host: Tuckerman	Martin Head-Gordon	University of California at Berkeley
November 21 Host: Ward	Craig Hawker	University of California at Santa Barbara

Seminars will be held on Fridays at 4:00 P.M. in room 1003 Silver Center.
31 Washington Place, between Greene Street and Washington Square East.
Reception to follow in room 1001P Silver Center.

Your Partner For Analytical Support Services

Rapid Results • Quality • Accuracy • Competitive Pricing



Robertson Microlit Laboratories

- Elemental CHN S, X Analysis - *same day service*
- Atomic Emission Spectroscopy
- Atomic Absorption Spectroscopy
- FTIR Spectroscopy
- UV / VIS Spectrophotometry
- Mass Spectrometry
- Chromatography
- Bioavailability
- Polarimetry
- Calorimetry
- Titrimetry
- Wet Chemistry
- KF Aquametry

P. O. Box 927 • 29 Samson Avenue • Madison, NJ 07940
Tel: (973) 966-6668 Fax: (973) 966-0136
www.robertson-microlit.com
email: results@robertson-microlit.com

STOP WASTING \$\$\$ on vacuum pumps!!

Rebuilding is smart.

A new pump costs **four times** what rebuilding costs.

Rebuilding is easy.

Just call 978 667 2393 for service second-to-none.

Mass-Vac does the job right.

- Factory trained technicians.
- Rebuilt and new pumps in stock.
- No-hassle parts and labor guarantee.
- Complete line of filtration and trap systems.

Because a really old, really healthy vacuum pump is a beautiful thing!



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