

**National
Chemistry
Week**
20 Years

The Many Faces of Chemistry
October 21-27, 2007

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February	December 14
March	January 15, 2008
April	February 16
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June	April 14
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November	September 15



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

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Deadline for items to be included in the November 2007 issue of *The Indicator* is September 14, 2007.

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October Historical Events In Chemistry

by Leopold May

The Catholic University of America, Washington, DC

October 1, 1867

Wilder D. Bancroft, a researcher in electrochemistry; was the founder and Editor of the Journal of Physical Chemistry and served as Editor from 1896 to 1932 as well as President of ACS in 1910. He made the first systematic study of oxidation cells.

October 2, 1907

One hundred years ago, Alexander R. Todd was born. He did research in the chemistry of nucleotides and coenzymes and received the Nobel Prize in Chemistry in 1957 for synthesizing nucleic acids.

October 5, 1861

The Chemical Society of Union College, the precursor of the American Chemical Society, was founded on this day.

October 6, 1807

Two hundred years ago, Humphry Davy at the Royal Institution isolated potassium.

October 8, 1883

Otto H. Warburg, a researcher on respiration and cancer, was born on this date. In 1931, he was awarded the Nobel Prize in Physiology and Medicine for his discovery of the nature and mode of action of the respiratory enzyme.

October 9, 1852

Emil H. Fischer was born on this day. He synthesized sugars, caffeine, uric acid, and many other chemicals for which he received the Nobel Prize in 1902 in recognition of the extraordinary services he has rendered by his work on sugar and purine syntheses. He introduced projection formulas for spatial arrangements of group around chiral carbon atoms, which are known as Fischer projections.

October 12, 1865

Vladimir A. Kistiakowsky, who was born on this date, was a researcher in electrochemistry and thermodynamics.

October 14, 1898

John M. Gulland, who did research on DNA, was born on this date. He also used electro-metric titration to prove existence of hydrogen bonds and studied the titration of phosphoric acid.

October 16, 1875

Henry C. Sherman, who was born on this date, was a researcher on vitamins.

October 18, 1912

Hercules was incorporated on this day.

October 21, 1803

John Dalton presented the first experimental evidence for atoms on this date before the Manchester Literary & Philosophical Society.

October 23, Any Year

Mole Day, 6.02 a.m. through 6.02 p.m. (Mole time); Mole Moment: 50.453 s after 6.42 p.m.

October 24, 1877

Roger Clark Wells did research on sodium compounds and chemical analyses of radioactive minerals. He served as the Chief Chemist of U. S. Geological Survey and was born on this day.

October 25, 1891

Edgar C. Britton, who was born on this date, contributed to industrial organic developments.

October 29, 1923

Carl Djerassi, a researcher in structure elucidation of natural products, was born on this date. He synthesized medicinals, and applied computer artificial intelligence to chemical problems. In addition, he writes novels and plays.

October 30, 1906

Max Tishler was an industrial chemist who developed antibiotics, including actinomycin and streptomycin and synthesized vitamin A and riboflavin.

THIS MONTH IN CHEMICAL HISTORY

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

A towering giant of the physical sciences, and yet one of the most modest and unassuming of men, was born on September 22, 1791, in Surrey, England, third child of a blacksmith and a farmer's daughter. Michael Faraday has always been one of my scientific heroes. He was essentially self-educated, and born and raised in humble circumstances. By force of character and intellect he became a leader among chemists and physicists. His life is an exemplary one, and well worth recounting.

The Faraday family moved to London when Michael was only 5, and when he was still in his teens his father died. His early education was fragmentary: "consisting of little more than the rudiments of reading, writing, and arithmetic at a common day school" to quote the man himself. At the age of 13 he became an errand boy in the shop of a bookbinder and stationer, and at 14 became an apprentice in the same shop. "Whilst an apprentice I loved to read the scientific books which were under my hands, and among them delighted in [Mrs.] Marcet's Conversations in Chemistry and the electrical treatises in the Encyclopedia Britannica. I made such simple experiments in chemistry as could be defrayed in their expense by a few pence per week, and also constructed an electrical machine ..." We see here the themes of chemistry and electricity which were to become the center of Faraday's scientific work.

In 1812 a customer took Faraday to hear some lectures by Sir Humphrey Davy, Professor at the Royal Institution. Inspired by these, and by his own reading, Faraday made careful copperplate notes of the lectures, embellished with drawings, and eventually sent them to Davy with a request to be considered for a position. Davy interviewed Faraday, gave him a realistic appraisal of the prospects of a career in science: "telling me that science was a harsh mistress and in a pecuniary point of view but poorly rewarding those who devoted themselves to her service"; and eventually appointed him as a laboratory assistant. Davy had recently married a rich widow, and was reducing his involvement with the Royal Institution. In 1813 he and Lady Davy, accompanied by Faraday, made an extended tour of Europe and in Florence, Faraday assisted Davy in combustion of diamond at the focus of a large burning lens. Faraday was promoted in 1815, and in 1816 gave his first course of lectures and published his first paper, analyzing the native caustic lime of Tuscany. In 1817 six publications of Faraday's appeared. His early chemical work included a variety of analyses, and experiments on novel alloys of iron. In 1821 Faraday was promoted again, to the post of superintendent of the laboratory, and this allowed him to marry, since living quarters were furnished for him at the Institution.

By 1824, when he was 33, Faraday had been elected to the Royal Society, had collaborated with Davy on the liquefaction of chlorine and ammonia, and had begun his work on the relationship between magnetism and electricity. He was also involved in some more practical matters. The Royal Society asked him to work on improving optical glasses. Faraday was a hard worker, and unsparing of himself. His laboratory notebooks, which have been published and which are models of note-taking, show how hard he drove himself. In 1827 he published a book on Chemical Manipulation which went through four editions, and is a wonderful source of information about how early nineteenth-century chemistry was actually done.

He took few holidays, and suffered periodically from fatigue and exhaustion. In 1833 and 1834, turning to electrical conduction, he established the principles of electrochemistry in what we now call Faraday's Laws. Seeking a nomenclature for this new subject he turned to Whewell at Cambridge, and they coined the terms so familiar to us all: electrode, ion, electrolysis etc. — all derived from impeccable classical roots. Towards the end of the 1830's Faraday took on yet more public responsibilities, including acting as an elder in his church. The weight of his burdens broke him for a while. He had to stop his scientific work for a year, and for four years he greatly reduced his lecturing and research. However he maintained one important tradition of the Royal Institution, namely the presentation of a lecture course around Christmas time to a juvenile audience. One of these lecture series is one of the classics of popular science, and has remained in print continuously from the time it was first given. I refer, of course, to Faraday's Chemical History of a Candle. If you haven't yet read it, you have a treat in store.

Faraday's last years as a researcher were devoted to studying the effects of magnetic fields on light, and he did further work on gas liquefaction. The last decade of his life saw a great diminution of his scientific work, but he had well earned his retirement. He died on August 25, 1867. Let me end with a quotation from J. R. Partington, the eminent historian of chemistry. "In his time Faraday was a model for scientific men. Of humble origin, he rose by his genius to the highest rank of scientific eminence, and his moral character and integrity were on the same level."

New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS GROUP

Carbon Trading

Speaker: Jason Patrick
Director
Greenhouse Gas Emissions
Markets Group
Evolution Markets, LLC
White Plains, NY

Date: Thursday, October 4, 2007

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

Place: The Chemists' Club
40 West 45th Street
New York, NY

Cost: \$40 discount price for Members who reserve by Tuesday, October 2, 2007 (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 via e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal) go to our Website: <http://www.nyacs-cme.org/>.



WESTCHESTER CHEMICAL SOCIETY

Fingerprinting Molecules by Proton NMR Spectroscopy

Speaker: Professor Abhijit Mitra
Department of Chemistry and
Biochemistry
College of Mount Saint Vincent
Riverdale, NY

Understanding π - π stacking plays an important role in determining the properties and behaviors of biomolecules and their interaction with drugs and proteins. We have recently shown that π - π stacking interaction can be studied by hitherto unknown concentration dependent chemical shift changes, for a wide variety of heteroaromatic compounds, in $^1\text{H-NMR}$ spectroscopy. Our initial findings were observed in quinoline, a common moiety in pharmaceuticals

and biomolecules. Thus π - π stacking involving quinoline molecules is an important phenomenon. Investigation of the π - π stacking in quinoline dimers, initially based on experimental observations from $^1\text{H-NMR}$, has been extended to ab initio calculations of quinoline dimer stabilization energies and X-ray crystal structure studies.

Abhijit Mitra was born in Calcutta, India, where he received his B.Sc. in Chemistry with Honors in 1967 and his M.Sc. in Chemistry in 1970 from the University of Calcutta. He then did his graduate studies under the guidance of Prof. Gilbert Stork at Columbia University working on the total synthesis of prostaglandin A₂, leading to the Ph.D. degree in 1977. After a short postdoctoral research with Prof. William Clark Still Jr. at Columbia, during which time he co-discovered the, now popular, flash column chromatography, he went to Harvard University where he worked with Prof. Yoshito Kishi. There he developed reaction methods for the control of stereochemistry in acyclic molecules and then worked on the total synthesis of ionomycin. He then joined Rohm & Haas as a Senior Research Chemist in 1980. Dr. Mitra's love for research and teaching brought him to College of Mount Saint Vincent in 1988, where is today. His current research includes synthesis of biologically active molecules, molecular modelling and ab initio calculations and NMR spectroscopy.

Date: Thursday, October 4, 2007

Times: Refreshments 5:30 PM
Lecture 6:15 PM

Place: Polytechnic University
Westchester Graduate Center
40 Saw Mill River Road
Hawthorne, NY

Directions at <http://www.poly.edu/west/environment/directions/>

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HIGH SCHOOL TEACHERS TOPICAL GROUP

Can Technology Save the Planet?"

Speaker: Bernard J. Bulkin

There is clear scientific evidence that climate change is happening, and that it is caused by human activity. Stopping this is the most difficult problems that people have ever had to face – first because it involves action by all of us, everywhere, and second because there is no one thing we can do that will solve the problem. Fortunately, there are many things, and we just need to choose some and do them. Of course some require behavioral change, but there is also a big role for science to play, and for the practical outcomes of science, technology. In this talk I am going to speak specifically about chemistry and physics, including some apparently simple developments that could make a big difference to our life on Earth.

Bernie Bulkin was an academic scientist and teacher for 18 years, at Hunter College/CUNY and Polytechnic Institute in Brooklyn, where he also served as Dean of Arts & Sciences and Vice President for Research. He joined Standard Oil of Ohio in 1985, and then moved to London with BP in 1988, where he held various roles in both technology and business, of which the final one was Chief Scientist of BP. Following his retirement at the end of 2003, he has embarked on his third career, which includes a number of business leadership roles, especially in companies with energy and environment interests. He is Commissioner for Energy and Transport at the UK Sustainable Development Commission and is a Fellow of New Hall, Cambridge University.

Date: Friday, October 19, 2007
Time: Social and Dinner 5:45 PM
Place: Caffè Pane e Cioccolato
10 Waverly Place at Mercer Street
(South-west corner)
New York, NY
(You eat, you pay cash only,
no credit cards.)
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.



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

Targeting the Complications of Metabolic Syndrome – Diabetes and Inflammation

Organizers: Loretta Bober
Schering-Plough Research
Institute
Judith L. Treadway
Pfizer Inc.

The prevalence of obesity in the United States has led to a significant increase in the complications associated with metabolic syndrome, including diabetes. While many therapeutic approaches target appetite to address this problem, an increasing body of data has demonstrated that many of these complications can be linked to a dysregulation of the body's immune system associated with this syndrome. In this symposium, we will investigate the role of the inflammatory mediators in the problems of metabolic syndrome. These approaches will ultimately lead to improved therapeutic targets to combat this medical need.

Program

Cytokine Action in Insulin Resistance: The Role of SOCS Proteins

Alexander S. Banks
Columbia University, New York, NY

Role of Chemokines in Macrophage Accumulation in Adipose Tissue

Anthony W. Ferrante
Columbia University, New York, NY

Oxidant-induced Protein Modifications in Diabetes and Metabolic Syndrome

Richard A. Cohen
Boston University School of Medicine,
Boston, MA

Inflammatory Markers and the Metabolic Syndrome

Michael J. Quon
National Institutes of Health
Bethesda, MD

Date: Tuesday, October 23, 2007
Time: 1:00 – 5:00 PM
Place: The New York Academy of
Sciences
7 World Trade Center – 40th floor
250 Greenwich Street
(at Barclay Street)
New York, NY 10007

Directions: <http://www.nyas.org/about/directions.asp>

To reserve a seat, visit the NYAS calendar at www.nyas.org/bpdg and complete the online reservation form, e-mail BPDG@nyas.org, or call tel: 212.298.3725.

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NATIONAL CHEMISTRY WEEK

Theme: The Many Faces of Chemistry

The New York Section celebration of National Chemistry Day will be on Saturday, October 27 in the Great Hall of the New York Hall of Science.

Last year we had over 700 attendees. We need you to top this number this year.

High School Teachers: Have your students do a presentation at a local elementary school, library, mall, etc. Video tape the presentation and submit the tape or DVD by October 19th. Winners will be announced for each subsection. Monetary prizes will be awarded. On October 27, the students would be able to perform their experiments at the Hall of Science.

Elementary/Junior High School Teachers: Have your students do a poster or an illustrated Haiku based on the theme: "The Many Faces of Chemistry". A Haiku is a three-line poem with five syllables in the first line, seven in the second, and five in the third. They do not have to rhyme and should be submitted and illustrated on an unlined 8.5" x 11" sheet of paper. Each school may send in 3 posters and/or Haiku. The student's name, school, address, phone number and teacher name should be included on all items. Winners will be announced for each New York subsection. Monetary prizes will be awarded. We will use the posters and Haiku entries to line the main hall of the Hall of Science. Entries should be received by October 19.

All participants and volunteers will not have to pay admission to the Hall or a Parking Fee.

All entries should be sent to: Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701-5239.

Date: Saturday, October 27, 2007
Time: 10 AM - 4 PM
Place: Great Hall
New York Hall of Science

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SCENES FROM THE NEW YORK SECTION



Honored College Chemistry students with their instructors at the Westchester Chemical Society May meeting at Pace-Pleasantville.



Jean Delfiner, Westchester co-chair; Carol Sencen, who received A Salute to Excellence; Dr. Mary Cowman, Polytechnic University, 2007 Distinguished Scientist Award; Dr. Rolande Hodel, A Salute to Excellence; and Joan Laredo-Liddell, Westchester co-chair. Taken at May meeting of the Westchester Chemical Society at Pace-Pleasantville.



Members of the High School Teachers Topical Group who presented at "Demo Derby," at the group's May meeting held at NYU.



The New York Section hosted a luncheon for the 50 and 60 year members and their guests at Tavern on the Green in Central Park.



2007 PA. MARM meeting. Donald Clarke, Anne O'Brien (District I Director), MARM HS Chemistry Teacher Awardee Sara McCoy (NY Section 2006 Nichols Chemistry Teacher Award), Joan Laredo-Liddell and Yorke Rhodes.



On June 4, 2007, the LIACS held its 18th Annual Outstanding Scholastic Achievement in high school chemistry Awards Dinner. It is one of our ways of reaching out and encouraging the high school students in chemistry.

The dining room was set up that at least one member of LIACS was at each of the tables where the students were seated. This brought about a dialogue with the professionals, students and parents. The event was sponsored by OSI Pharmaceuticals.

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North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Date: Monday, October 22, 2007
Time: 4:30 PM
Place: Fairleigh Dickinson University
College at Florham
Lenfell Hall, the Mansion
Madison, NJ

Cost: \$5.00 - pizza dinner

Directions: can be found at:
<http://view.fdu.edu/default.aspx?id=238>



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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 searching.

The next meeting for the Careers In Transition Group will be held **Thursday, October 4, 2007**, 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.

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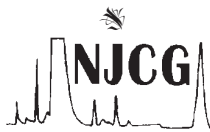
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TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, October 15, 2007
Time: 4:30 PM
Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ

Contact: Diane Krone at 201-385-4810 or
kroned@optonline.net



NORTH JERSEY CHROMATOGRAPHY GROUP

Sponsored by CPSCA

Influencing Scientific Decision-Making in Drug Discovery & Development via Integrated Analytical Sciences and Strategies

Metabolomics and Metabonomics session

Session chair: Dr. István Pelczar
Princeton University

Spectroscopic Approaches in Biomarker Discovery and Molecular Systems Biology

Jeremy Nicholson
Imperial College

Integrated Metabonomic Studies

Nelly Aranibar
Bristol-Myers Squibb

Probing Dynamic Nuclear Polarisation Enhancement in NMR for Biological Applications

Ulrich Gunther
University of Birmingham

Date: Tuesday, October 23, 2007

Times: Metabolomics and Metabonomics
Session 4:45 PM
Sponsor Hospitality - Evening
Workshops 6:00 PM - 8:00 PM

Place: Sheraton Bucks County Hotel
Langhorne, PA

Cost: Free, but registration is required

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Oxford Instruments

For registration details please visit our website
<http://www.northjerseychromgroup.org/>

NMR TOPICAL GROUP

Bruker Night!

Sponsored by: Bruker BioSpin

New Tools for NMR-based Metabolic Screening and Fingerprinting

Speaker: Dr. Manfred Spraul
Director of NMR Applications and
Worldwide Coordinator
Hyphenation
Bruker BioSpin GmbH
Rheinstetten, Germany

NMR for long being seen as a tool to solve chemical structures now rapidly moves into mixture analysis, driven by Metabonomics and Food Quality Control applications. High throughput screening is needed to fulfil the stringent requirements of statistical data evaluation. Quantification of compounds in a mixture is the other task, which has to be preceded by safe identification, which especially in aqueous solution is not straightforward. Linking NMR results to mass spectral screening analysis allows to further enhance the information available, using statistical covariance analysis. Hardware and analysis tools needed are described and several applications are shown.

Dr. Spraul holds a Ph.D. in Chemical Engineering and a Master's Degree in Chemistry from the Technical University Karlsruhe, Germany. Prior to joining Bruker BioSpin GmbH in Germany in 1984 he was in control of the analytical laboratory of the institute of Petrochemistry during his Ph.D., covering NMR, LC-MS, GC-MS and IR. At Bruker BioSpin he started as application chemist for NMR. Since 1987 he was manager of the NMR application group. Since 2002 he is director of NMR applications and responsible for NMR hyphenation on a worldwide basis. Main fields of work are Metabonomics, general mixture analysis, intelligent NMR-automation, databases and structure elucidation. He holds 10 patents in the NMR field and has about 80 publications in various NMR-applications and NMR hyphenation.

Door Prizes!

Date: Wednesday, October 24, 2007

Times: Dinner 6:30 PM
Seminar 7:00 PM

Place: Woodbridge Hilton
Iselin, NJ

Cost: Free

Directions:

http://njacs.org/d_woodhilt.html

Advanced registration preferred
(50 maximum).

Register online: <http://njacs.org/nmr.html>,

or via e-mail to
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NORTH JERSEY ORGANIC TOPICAL GROUP

Drugs from Academia: Marketed Drugs from Academic Labs

Program

"Discovery of Alimta, a Broadly Effective New Antitumor Agent"

Edward C. Taylor
Princeton University

"SAHA (Vorinostat): The First Anticancer HDAC Inhibitor Approved for Human Use"

Ronald Breslow
Columbia University

"Didanosine (ddl): A Member of the Versatile 2',3'-Dideoxy Family of Biomedical Nucleoside Analogues"

Morris J. Robins
Brigham Young University

"Basic Science to the Market. The Discovery of Lyrica®"

Richard B. Silverman
Northwestern University

"The Discovery and Development of 3'-Heteranucleosides"

Dennis C. Liotta
Emory University

Date: Friday, October 26, 2007

Times: Registration will begin at 8.30 AM
Symposium 9:00 AM - 4.30 PM
Lunch 12.30 PM

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

Cost: Registration fee: \$95.00
(Symposium and Lunch)

For directions, on-line registration and further details please visit our website
www.njacs.org/organic.html

*Due to limited seating, please complete the on-line registration form at www.njacs.org/organic.html and send a check payable to "North Jersey Section ACS" c/o:

(continued on page 14)

ORGANIC TOPICAL GROUP

(continued from page 13)

Dr. Binh Vu
Discovery Chemistry, 123/3
Hoffmann-La Roche, Inc.
340 Kingsland Street
Nutley, NJ 07110
E-mail: binh_t.vu@roche.com



WE ARE GOING BACK TO THE LSC National Chemistry Week

The Liberty Science Center has re-opened and you probably have heard about all the new demos. Why don't you join us on **Saturday, October 27**, as the North Jersey Section celebrates National Chemistry Week? After sharing some of your knowledge of chemistry/science by overseeing a hands-on activity, you can tour the Center and take-in the new demos. It will be a fun day for you and your family!

The theme for this year is "**The Many Faces of Chemistry**". This gives you great latitude as you plan your hands-on activities. It would be appreciated if you could get a diverse group of people to join you at your table. Your activities should be geared for 8 to 12 year olds. As usual our first priority is safety. Preferably presenters should use household materials to demonstrate a scientific principle. We would like the students to be able to redo these experiments at home and at school so it would be very helpful if you had handout instructions to distribute.

If you are out of ideas for safe activities for a table, you can look at the NCW page at the ACS website. To minimize duplication of the presentations, we will need to know by October 2 the activity you would like to conduct at your table. Individuals contacting us first with their idea(s) will be given priority, so please let us hear from you as soon as possible. By October 12, we need to have the names and addresses of the individuals who will be joining you at your table.

Form 3. I will be joined at my table by the following volunteers.

Complete Name:	Institution:	Address (snail mail):	Acknowledge letters should be sent to:	Activity:	Time Volunteering:

Thanks very much for all of your help. The Section is most appreciative of your efforts.

Valerie J. Kuck, 45 Warfield St., Upper Montclair, NJ 07043, vjkuck@yahoo.com

As usual we are looking for financial support to cover the many expenses associated with our activities and would be most grateful, if you would contact the appropriate individuals at your company.

Please fill out the following forms and return them to me:

Form 1. Count me in.

My name is: _____

I am volunteering to work on: **Saturday, Oct. 27,**

10:00am-1:00pm
1:00pm-4:00pm, or
all-day (Underline times).

I can be reached at: (work phone number) _____

My complete address is: _____

I am an employee at: _____

The activities at my table will be: _____

In addition to a table, I also need: _____

I will be bringing handouts on activities that the students can do at home. Yes No

I will need more than one table. Yes No

How many additional tables will you need? _____

Form 2. My company would like to support these efforts.

The following company/individuals are willing to help defray the costs of these events: (Checks should be made out to the North Jersey Section and sent to me.)

An acknowledgement letter for this contribution should be sent to (name and full address):

ChemTAG

Celebrate National Chemistry Week

Bring your students to present at The Many Faces of Chemistry.

Date: Saturday, October 27, 2007

Times: 10:00 AM - 3:00 PM

Place: NEWLY-REOPENED
Liberty Science Center.
222 Jersey City Boulevard
Jersey City, NJ

Contact: Bobbi Goman at
rosellerams@yahoo.com



POLYMER TOPICAL GROUP — COSPONSORED BY THE ACS DIVISION OF POLYMER CHEMISTRY

**To Green Polymers: Materials,
Processes and Products**

Organized by: NJACS Polymer Topical
Group

Program

**Session I: Green Polymers: Materials
and Processes**

Michael Jaffe, presiding

**The Future of Polymers and the
Environment: Opportunities at the
Molecular Level**

John C. Warner
U. Mass., Lowell

Synthetic Absorbable Polymers
Dennis Jamiolkowski
JNJ

**The Preparation and Application of
Highly Modified Starches**

John S. Thomaidis, ICI
L. Cimecioglu, ICI
K. Rodrigues, Alco, and
M. Crossman, Alco

**Polyolefins - They're Greener than You
Think**

D. J. Lohse
D. N. Schulz
ExxonMobil

**Session II: Green Polymers: Product
Application Approaches**

Ron DeMartino, presiding

**Polymers in High Performance
Construction Materials**

Charlene Wall
BASF

Polymers for Printing Inks; A Green

History

Richard Durand
Sun

Green Polymers in Cosmetics

Karl Krummel
L'Oreal

Poster Session

Jin Zhang and Jinjiang Li
co-organizers and presiding

Mixer

Date: Thursday, November 8, 2007

Times: 1:00 PM - 6:00 PM

Place: Rutgers University
Busch Campus
Fiber Optics Materials Research
Auditorium
Piscataway, NJ

Cost: Registration: ACS Member \$30
Non-member \$40
Student \$20.

After October 24,
Registration: ACS Member \$35
Non-member \$45
Student \$25.

Website: More information and a download of the registration form can be found at <http://njacspolymers.org/>.

Registration: By mail using the registration form below. Advance fee is required. Please 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

Directions: Can be found at <http://maps.rutgers.edu/pdf/busch.pdf>. Building G3 on map.

Poster Submission: Please send title, abstract and contact information to Jin Zhang (jin.zhang@bms.com). If you are from academia, large corporations or local businesses, this is a good opportunity for you to showcase your research, network with other people and contact possible employers and clients. In addition to topics on green polymers, we are looking for poster submissions in polymer research in diverse areas, such as polymers in health care, advanced polymer materials, polymer characterization, etc.

Please note abstracts will be 400 words or less. No tables and graphics. The size of the

(continued on page 16)

POLYMER TOPICAL GROUP

(continued from page 15)

poster board is 5'2" wide and 3'2" high. All poster abstracts must be received by **October 24, 2007**.

Sponsors: ExxonMobil, Apollo Ventures, LLC

Co-sponsors: ACS Division of Polymer Chemistry

Endorsing Organizations: ACS Green Chemistry Institute, AIChE North Jersey Local Section, CUNY Center for Engineered Polymeric Materials, Lehigh Center for Polymer Science and Engineering, NJIT Medical Device Concept Laboratory, Princeton Center for Complex Materials.

Registration Form
(submit with your check)

Name _____
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Phone _____

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____ Non-member \$40 **in by**
____ Student \$20 **Oct. 24, 2007**
____ I will submit a poster:
Title: _____

Send with check payable to **NJACS-Polymer Group** to Dr. Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928

2007 LEO HENDRIK BAEKELAND AWARD SYMPOSIUM AND PRESENTATION

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Recipient: Professor John Rogers,
University of Illinois at Urbana/Champaign

Program

"Bigger is Better: Nano-materials for Large Area Electronics"
Prof. John Rogers
Founder Professor of Chemistry and of Materials Science and Engineering

"Microdevices for Biomedical Research"
Prof. George M. Whitesides
Flowers University Professor of Chemistry, Harvard University

"Optical Control Over Condensed Matter"
Prof. Keith A. Nelson
Professor of Chemistry, Massachusetts Institute of Technology

"Plasmonic Crystal Sensors: Making Molecules Visible to the Naked Eye"
Prof. Ralph G. Nuzzo
Lycan Professor of Chemistry, University of Illinois at Urbana/Champaign

"Who Else is Interested in Chemistry?"
Dr. Mark Cardillo
Executive Director of the Camille and Henry Dreyfus Foundation

Date: Thursday, November 15, 2007
Place: New Jersey Institute of Technology
Newark, New Jersey

Pre-registration is recommended. **Deadline is Wednesday, October 31, 2007.**

Poster presentations will be accepted on a first come first serve basis due to space limitation. Please submit title of the poster, author's names and a brief abstract by **Wednesday, October 31, 2007**.

Please register online at www.njacs.org.



SCENES FROM THE NORTH JERSEY SECTION



Bettyann Howson, Roseann McCarthy, and Diane Krone of the NJACS-Teacher Affiliates presented at ChemEd 2007 at the University of North Texas in August.



Members of Fairleigh Dickinson University Student Affiliates share the joy of chemistry with the community at Chatham Fest held on June 16, 2007.

Scenes from Chemagination Contest held at the College of St. Elizabeth on April 23, 2007.



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Call for Nominations

GUSTAVUS JOHN ESSELEN AWARD FOR CHEMISTRY IN THE PUBLIC INTEREST

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

The Award consists of a medal and a check for \$5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award will usually be held in Cambridge, Massachusetts at the April meeting of the Northeastern Section. The Awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

To nominate a candidate please provide statements from two co-sponsors as well as a brief biography of the candidate, a description of the work which has been recognized as communicating the positive values of the chemistry profession, and copies of selected, pertinent articles. Popular news and feature articles should be included as an indication of public interest. Nominations and inquiries should be directed to Mr. Joseph A. Lima, c/o Karen Piper, 19 Mill Road, Harvard, MA 01451. **Nominations should be posted no later than October 15, 2007.** Joint nominations are acceptable. The Committee will review the nominations and the award recipient will be notified by the first of February 2008.



2008 AWARD FOR CREATIVITY IN MOLECULAR DESIGN AND SYNTHESIS

The North Jersey Section of the American Chemical Society is soliciting nominations for the 2008 "Award for Creativity in Molecular Design and Synthesis." Unlike the various other Awards, which are bestowed upon members each year by singular organizations, "The Award for Creativity in Molecular Design and Synthesis" is unique in that it has been established by the North Jersey Section of the ACS and a combined consortium of organizations

from the pharmaceutical sector and academic arena. The founding sponsors of this Award include: Bristol-Myers Squibb, Hoffmann-La Roche, Merck, Novartis, Schering-Plough, and Rutgers University. The Award consists of a crystal plaque and a \$5,000 honorarium. The Section presents the Award biannually, on even years, to commemorate the scientific, technical, and industrial impact of senior members of the American Chemical Society and their mentorship of younger members. The Award is given in recognition of accomplishment in pure and/or applied chemistry, as characterized by the initiative, creativeness, leadership, and perseverance of the individual as indicated by published or unpublished evidence. "Accomplishment" for the purpose of this Award is understood to be that of a world renowned leader of unusual merit, with a specific emphasis on an individual who has demonstrated broad scoping impact in the areas of chemical synthesis, method development, bio-organic/ medicinal chemistry, pharmaceutical sciences, and/or molecular recognition.

Nominations for the Award should include a letter describing the nominee's achievements, a brief biography along with the individual's *Curriculum Vitae*, and a list of the nominee's more important publications. Recommendation letters supporting the nomination are strongly encouraged and should be assembled by the nominating individual on behalf of the candidate.

Please submit materials by **November 30, 2007**, to:

Professor Lawrence Williams
Rutgers University
Department of Chemistry & Chemical
Biology
610 Taylor Road
Piscataway, NJ 08854



WCS DISTINGUISHED SCIENTIST AWARD 2008

The Westchester Chemical Society is accepting nominations for the "WCS Distinguished Scientist Award 2008". Scientists who live or work in Westchester qualify. Send resume by **January 31, 2008** to Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701



2008 SISTER MARIAN JOSE SMITH AWARD OF THE NORTH JERSEY SECTION

The biennial award, funded by Roche, consists of \$1,000 prize and a recognition plaque. It recognizes a professor from a degree-granting institution in the North Jersey Section for

inspiring students and launching them on successful careers in chemistry as manifested by their accomplishments.

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. (We welcome electronic submission of the nomination package.) Nominations must be received by **February 8, 2008**. Visit <http://www.njacs.org/awards.html> for more information and a list of past recipients.

Others

NEW JERSEY INSTITUTE OF TECHNOLOGY - OTTO H. YORK DEPARTMENT OF CHEMICAL ENGINEERING

Graduate Seminar Series - Fall 2007

October 1

TBA

October 8

"Some Thermodynamic Properties of Near-Critical Systems"

John O'Connell

Harry Douglas Forsyth Professor
Department of ChE
University of Virginia, Charlottesville, VA

October 15

TBA

Ilhan A. Aksay

Professor, Department of ChE
Princeton University, Princeton, NJ

October 22

TBA

October 29

"From Particle Packings to Amino Acid Sequences: Statistical Characterization of Complex Systems"

Pablo G. Debenedetti

Class of 1950, Professor of Engineering and Applied Science; Professor of Chemical Engineering and Director of Graduate Studies
Princeton University, Princeton, NJ

Times: Refreshments 2:30 PM

Seminars: 2:45 PM

Place: New Jersey Institute of Technology
Room 117, NJIT Kupfrian Hall

Seminar Coordinator: Professor Boris
Khusid (973) 596-3316,
Khusid@adm.njit.edu

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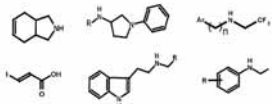
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- www.mboservices.net/recr_disp.php
- <http://newyorkacs.org/jobs.html>
- <http://njacs.org/jobs.html>

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