

**CHEMISTRY AS A LIFE SCIENCE  
SYMPOSIUM XIV**



Philip Baran  
Scripps



Carl Djerassi  
Stanford



Justin DuBois  
Stanford

Paul Robeson  
Campus Center  
Rutgers, the State University  
of New Jersey, Newark

Friday,  
March 21, 2008



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Berkeley



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Paul Knochel  
Ludwig-Maximilians Universität

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# THE Indicator

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### EDITORIAL DEADLINES

April	February 16
May	March 14
June	April 14
September	July 14
October	August 15
November	September 15
December	October 15
January 2009	November 15
February	December 13, 2008
March	January 16, 2009



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## February Calendar

### NEW YORK SECTION

**Thursday, February 7, 2008**

Chemical Marketing & Economics Group  
See page 6.

**Thursday, February 7, 2008**

Long Island Subsection  
See page 6.

**Friday, February 8, 2008**

High School Teachers Topical Group  
See page 7.

**Friday, February 15, 2008**

Hudson-Bergen Chemical Society  
See page 8.

**Tuesday, February 22, 2008**

Biochemical Topical Group  
See page 8.

### NORTH JERSEY SECTION

**Thursday, February 7, 2008**

Careers in Transition  
See page 11.

**Monday, February 11, 2008**

Teacher Affiliate Executive Committee  
See page 12.

**Wednesday, February 13, 2008**

No. Jersey Chromatography Group  
See page 12.

**Thursday, February 21, 2008**

ChemTAG  
See page 12.

**Monday, February 25, 2008**

No.J Executive Committee  
See page 11.

### FEBRUARY HISTORICAL EVENTS IN CHEMISTRY

by Leopold May

The Catholic University of America  
Washington, DC

**February 2, 1566**

Micha. S\_dziwój (Michael Sendivogius), an alchemist, was born on this date. He discovered that air is not a single substance and contains a life-giving substance, which he identified this 'food of life' with the gas given off by heating nitre (saltpetre) and developed methods for isolating and purifying various acids, metals and other chemical compounds.

**February 5, 1872**

Lafayette Benedict Mendel, who made discoveries concerning the value of vitamins and proteins, was born on this date. Thomas Osborne and he established the modern concepts of nutrition. He discovered vitamins A (co-discoverer, Elmer McCollum) and B complex.

**February 7, 1864**

John A. R. Newlands published his first paper on this date on his law of octaves showing that in order of increasing atomic weights of the element, the properties repeat-ed with every 8th element.

**February 10, 1846**

Ira Remsen, who was a founder of American Chemical Journal, was born on this date. He was a researcher in organic chemistry and co-synthesizer of saccharin.

**February 12, 1785**

Pierre L. DuLong, who was born on this date, discovered the law of constancy of atomic heat (DuLong & Petit) in 1819, and nitrogen trichloride in 1813. He did research on refractive indices and specific heats of gases and suggested that acids were compounds of hydrogen in 1815. He also devised a formula for heat value of fuels (DuLong Formula) that is still today.

**February 16, 1886**

Robert R. Williams, Jr., a member of the Hall of Fame of Inventors for the Process for Obtaining Vitamins, was born on this date. He was a telephone company researcher who in his spare time developed ways to synthesize vitamins, isolated thiamine in crystalline form in 1933, and synthesized vitamin B.

**February 18, 1799**

Ferdinand Reich, who codiscovered indium with Hieronymus T. Richter in 1863, was born on this date.

**February 19, 1859**

Swante A. Arrhenius, who was born on this date, devised a theory of electrolytic dissociation and did research in viscosity and reaction rates. He received the Nobel Prize in 1903 in recognition of the extraordinary services he has rendered to the advancement of chemistry by his electrolytic theory of dissociation.

**February 22, 1828**

Frederich Wöhler in a letter to Jöns J. Berzelius, announced the synthesis of urea from ammonium cyanate, asking whether this is a true synthesis of organic from inorganic material.

**February 24, 1783**

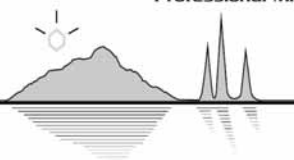
Two hundred and twenty years ago, John Gorham was born. He was the author of an early American text, Elements of Chemical Science.

**February 27, 1869**

Alice Hamilton, who was the first woman professor at Harvard Medical School, was born on this day. She researched toxic substances in the workplace.


**Deadline for items to be included in the April 2008 issue of *The Indicator* is February 16, 2008.**

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## New York Meetings

[www.newyorkacs.org](http://www.newyorkacs.org)

### CHEMICAL MARKETING & ECONOMICS GROUP

#### Technology Changes in the Fine Chemical and API Industry

**Speaker:** James Bruno  
Managing Director  
Chemical and Pharmaceutical Solutions

**Date:** Thursday, February 7, 2008

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

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

**Fees:** \$45 discount price for Members who reserve by **Tuesday, February 5th** (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](mailto: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), which is below the credit card logos.

### LONG ISLAND SUBSECTION

#### Trace Analysis of Environmental Toxins

**Speaker:** Dr. Andy Lichtman  
Nassau County Department of Health

Monitoring of organic contaminants in Nassau County drinking water is the primary responsibility of the trace organics laboratory of the Nassau County Department of Health. Employing techniques such as GC-MS, a large number of compounds can be analyzed. Some results will be presented.

**Date:** Thursday, February 7, 2008

**Times:** Coffee 5:30 PM  
Seminar 6:00 PM

**Place:** Hofstra University  
Chemistry Building  
Lister Auditorium

**Times:** Dinner 7:00 PM  
**Place:** Neighboring restaurant  
**Cost:** \$20.00

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### HIGH SCHOOL TEACHERS TOPICAL GROUP

#### Massive Data Sets in Astrophysics Including Sloan Digital Sky Survey

**Speaker:** Dr. David W. Hogg  
Associate Professor  
Center for Cosmology and Particle Physics  
Dept. of Physics, NYU

Dr. Hogg participates in and uses the very large Sloan Digital Sky Survey and other large surveys. His group maintains and uses more than 30 Tb of astronomical data. They do science with, and create new data analysis techniques for, data sets of non-trivial size and complexity. They have started a big project on automating astrometry, which is crucial for the next generation of enormous astrophysics projects.

**Date:** Friday, February 8, 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.



The November meeting of the High School Teachers Topical Group took a different format. It brought its members to investigate the use of "Smart Science: Using the Interactive Whiteboard in the Science Classroom." The program was held at the SMART Technologies Corporation in New York City.

(Left) Some members viewing the Smart Board to investigate the States of Matter.



The High School Teacher Topical Group started its September program with Victor D. Chase, a science writer, and his topic: "Neural Prostheses."

Members of the HSTTG group joined Joan Laredo-Liddell, Co-chair HSTTG presenting a certificate of appreciation to the speaker, Victor Chase and Jean Delfino, Co-chair HSTTG and John Roeder, holding Victor Chase's latest book: "Shattered Nerves: How Science is Solving Modern Medicine's Most Perplexing Problems." The book was cited by the Library Journal as one of the best science books of 2006.

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A collage of images related to chemistry, including laboratory glassware, a person in a white lab coat working at a bench, and a molecular structure diagram.



## HUDSON-BERGEN CHEMICAL SOCIETY

### Self-assembly of Bis-Urea Macrocycle into Columnar Nanotube

Speaker: Dr. Yazdekhashti  
New Jersey City University

There is great interest in development of new molecular building blocks that predictably self-assemble into three dimensional Nanoscale structures as sensors or templates for directed reactions or as ion and small molecule transport systems. Synthesis, assembly, structure and conformational studies of Novel Macrocylic Bis-Urea in solution and solid state by <sup>1</sup>H-, <sup>13</sup>C-NMR and X-ray crystallographic diffraction techniques will be presented. Dr. Yazdekhashti has worked as a Research Scientist in the pharmaceutical industry for nearly a decade. His background and training is broad and encompasses a number of various areas in the Medicinal Chemistry field. Currently, he teaches Organic Chemistry at New Jersey City University. Dr. Yazdekhashti obtained his Ph.D. from City University of New York.

Date: Friday, February 15, 2008

Times: Dinner 6:00 PM  
Lecture 7:00 PM

Place: New Jersey City University  
Michael Gilligan Student Union  
Building, Room 206, Second Floor

Cost: Lecture is free and open to all  
Dinner \$20.00 (\$10.00 students)

Reservations required for dinner only. Please RSVP by 2/11/07. To reserve a seat, please Contact Anita at 201-200-3066. Please make checks payable to Hudson Bergen ACS. For directions to NJCU campus, visit WWW. NJCU.edu.

## HUDSON-BERGEN CHEMICAL SOCIETY

Dr. Ariel Fenster spoke at Ramapo College on Friday, December 14, 2007. The topic was "Nanotechnology: The Next Big Thing."

L - R are: Sandor Szarka, Dr. Ariel Fenster (Speaker, McGill University, Office of Science and Society), Dr. Michael Wong (Schering-Plough), and Dr. Michael Fenster (Bristol-Meyers-Squibb).



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

From Molecules to Mind: Role of Hypothalamic-Pituitary Axis in CNS Diseases and Consequences of Dysregulated Peripheral Feedback

Organizers: Irina Antonijevic  
Lundbeck Research, USA

David R. Riddell  
Wyeth Discovery

Neuroscience

Speakers: Mary F. Dallman  
Department of Physiology  
University of California  
San Francisco

Carlos Forray  
Lundbeck Research USA

Zul Merali  
University of Ottawa

Alexandros Vgontzas  
Department of Psychiatry  
Penn State College

Sonia Lupien  
Douglas Institute

Frank M. LaFerla  
Department of Neurobiology  
and Behavior  
University of California, Irvine

This symposium will explore the developing relationships between the stress response and mood, metabolic, and neurological disorders.

This meeting is being held jointly with the American Chemical Society's New York Section.

Date: Tuesday, February 19, 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, New York

Space is limited. Reserve a seat on-line at:  
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Non-members may attend for a fee of \$20 per event; Student Non-members for \$10.

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## SCENES FROM WESTCHESTER CHEMICAL SOCIETY



The October Meeting of WCS was presented by Dr. Abhijit Mitra of the Department of Chemistry and Biochemistry of the College of Mt. St. Vincent at Polytechnic University in Hawthorne, NY. His topic was "Fingerprinting Molecules by Proton NMR Spectroscopy."

(Left to right): Mary Cowman, Polytechnic University; Rolande Hodel, WCS Treasurer; Dr. Mitra, Jean Delfiner, Co-chair WCS; Joseph Sencen, Director WCS; Joan Laredo-Liddell, Co-chair WCS.

The November meeting of the Westchester Chemical Society featured Dr. Kalle Levon of the Department of Biological and Chemical Sciences, Polytechnic University, Brooklyn, NY. His presentation was on "Selective Recognition of Macromolecules with Ion Sensitive Electrodes."

Left to right: Rolande Hodel, WCS Treasurer; Jean Delfiner, WCS Co-chair; Dr. Kalle Levon; Joan Laredo-Liddell, WCS Co-chair; Mary Cowman, WCS Director; Joseph Sencen, WCS Director.



The December Meeting of the Westchester Chemical Society was held at Polytechnic University in Hawthorne. Our speaker was Dr. Irina Gazaryan, Director of the Laboratory of Enzymology at Burke Medical Research Institute in White Plains, NY. Her topic was: "Metal Ions: Inducers & Mediators of Oxidative Stress."

Left to right: Peter Corfield, Purchase College and WCS Director; Joan Laredo-Liddell, Co-Chair WCS; Dr. Irina Gazaryan; Jean Delfiner, Co-Chair WCS; Mary Cowman, Polytechnic University and WCS Director.



## NEW YORK SECTION'S 2ND CHEMICAL HISTORIC LANDMARK AWARD

The New York Section presented its 2nd Chemical Historic Landmark Award to IBM's T.J. Watson Research Center in Yorktown, NY on Thursday, November 29, 2007.

Attending the presentation were members of the New York Section of ACS and the IBM Research Leaders. John Kelly, IBM senior vice president and director of research, accepted the plaque on behalf of the T. J. Watson Research Center.

Dr. John Sharkey, Pace University, and NY Section – historian and Chair of Historic Landmarks, began the program with a brief history of the American Chemical Society and the activities of the New York Section. Joan Laredo-Liddell, 2007 Chair of the NY Section, presented a brief history of the contributions of IBM. Notable contributions: Contributions in electrochemistry research has enabled many industry-leading products including magnetoresistive read heads for hard disk drives and dual damascene copper wiring for microelectronics; Using the scanning tunneling microscope to perform the first studies of surface chemistry with atomic resolution that established the relationship between chemical reactivity



Left to right: John Sharkey, NY Chair of Historic Chemical Landmarks, Joan Laredo-Liddell, 2007 NY Chair, John Kelly, IBM senior vice president and director of research.

and local electronic structure; and Pursuit of fundamental studies of the gas-phase chemistry of organic compounds containing Silicon,' with the invention of the ultrahigh-vacuum Si epitaxy led to the fabrication of electronic devices that set a string of records for high-frequency performance, and ultimately the ability to offer new products for communications.

The plaque read: "Since opening its doors in 1960, the IBM Thomas J. Watson Research Center has been the world leader in inventing, discovering, and developing novel materials and chemical processes that have spearheaded revolutionary advances in computer hardware, including semiconductor chips for logic and memory, advanced packaging and interconnect technology, data storage technology, and flat panel liquid crystal display technology. Looking to the future, Watson scientists are working with carbon nanotubes, silicon nanowires and other materials and chemical processes for potential innovations in computer hardware devices based on nanotechnology."

A reception followed with an opportunity to talk with the IBM Fellows and discuss their area of expertise. Discussion also included the local educational outreach programs of the Watson Center for area schools, teachers and educational organizations.



Some of the ACS-NY members at the IBM presentation — Jean Delfiner, Joan Laredo-Liddell, 2007 NY Chair, Marc Walters, 2007 NY Chair-elect, Ralph Stephani, Vijaya Korlipara.

## North Jersey Meetings

<http://www.njacs.org>

### NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Date: Monday, February 25, 2008

Time: 6:30 PM

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

Cost: \$5.00 - pizza dinner

Directions: can be found at:

<http://view.fdu.edu/default.aspx?id=238>



### IN MEMORIAM

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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, February 7, 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](mailto:vjkuck@yahoo.com), if you plan on attending this meeting.



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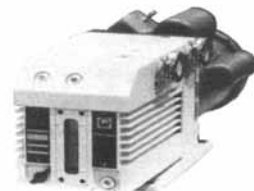
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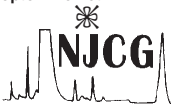
### Executive Committee Meeting

Date: Monday, February 11, 2008

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

Seminar is sponsored by Thar  
Technologies, Inc., Pittsburgh, PA.

### SFC/MS - from Analytical to Mass- Directed Purification

Speaker: Dr. Rui Chen  
Thar Technologies

### Analytical to Prep - The SFC Advantage

Speaker: To be confirmed  
From Merck  
West Point, PA

Date: Wednesday, February 13, 2008

Times: Social 5:30 PM  
Dinner 6:30 PM  
Seminar 7:30 PM

Place: Somerset Crown Plaza Hotel  
110 Davidson Avenue  
Somerset, NJ

Reservations: Please reserve by Friday,  
February 8, 2008. Please, note, seats are  
limited and pre-registration is required.

To register on-line, go to  
<http://www.northjerseychromgroup.org/>  
or [www.njacs.org](http://www.njacs.org), click on  
**chromatography**. Or phone: David Kohler,  
ES Industries, (856) 753-8400.



## ChemTAG MEETING

Date: Tuesday, January 24, 2008

Time: 4:00-6:00 PM

Place: Ramapo High School  
331 George Street  
Franklin Lakes, NJ

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



## NORTH JERSEY ELECTION RESULTS

The final tally for the election is:

Officers:		
Chair-Elect	Joe Potenza	457
Secretary	Bettyann Howson	456
Treasurer	Jackie Erickson	452

### Councilors

Les McQuire	285
Jeannette Brown	255
Anita Brandolini	242
George Heinze	208

### Alternate Councilors

Christine Vilardi	195
Mariann Neverovitch	152
Bettyann Howson	138
Ambrish Singh	126
Joe Potenza	100
Jay Tagat	84

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## CHEMISTRY AS A LIFE SCIENCE — A HISTORICAL PERSPECTIVE

The CAALS biennial, one-day symposia are held under the auspices of the American Chemical Society through its Division of Medicinal Chemistry, Division of Organic Chemistry and its North Jersey Section, and sponsored by more than a score of major pharmaceutical and related research-based chemical companies.

The series began in 1982 with a symposium dedicated to the memory of Dr. Willy Leimgruber, an organic chemist and Director of Chemical Research at Hoffmann-La Roche in Nutley from 1973 until his untimely death in 1981. His research interests had included structure elucidation and synthesis of natural products and the study of their potential utility as medicinal agents. As with all the ensuing symposia, the first symposium was an overwhelming success, attracting a capacity audience of over 750 research chemists from academia and industry.

It became immediately clear after the initial event that such a symposium, in the heartland of the pharmaceutical industry, had served a scientific need of the research-based chemical and pharmaceutical community in New Jersey and the Eastern Seaboard's middle-Atlantic region. Subsequently, key representatives from the pharmaceutical research industry in northern New Jersey solidified the organizational process to insure that similar events would continue into the future on a biennial basis.

Invitational lectures at the pioneering symposium addressed issues central to the focus of modern pharmaceutical research, ranging from synthetic organic chemistry to topics at the interface of chemistry and biology. Subsequent meetings have adopted this philosophy and format, continuing to focus the attention of research chemists on the relevance of their science to an understanding of biology at the molecular level and to the ability of organic chemists to intervene in biological processes for therapeutic benefits. The CAALS symposia will continue this tradition as chemistry continues to move to become an inclusive science — one that incorporates within itself all of the various disciplines to which it con-

tributes, especially the biological sciences.

Rutgers, the State University, is the host organization and provides the use of the Newark campus facilities with the compliments of the State of New Jersey. Financial support, which has always made this series possible, is generously provided by most of the major pharmaceutical companies and related chemical companies on the Eastern Seaboard.

David L. Coffen and Stan S. Hall



## CHEMISTRY AS A LIFE SCIENCE — SYMPOSIUM XIV

The fourteenth in a series of CAALS biennial symposia.

### Distinguished Invited

Speakers:	Carl Djerassi Stanford University
	Paul Knochel Ludwig-Maximilians Universität
	Alana Shepartz Yale University
	Dirk Trauner University of California, Berkeley
	Justin DuBois Stanford University
	Philip Baran The Scripps Research Institute

Date: Friday, March 21, 2008

Place: The Paul Robeson Campus Center  
Rutgers, The State University  
Newark, NJ

Cost: Free and open to the public.

Further information regarding the Symposium will be added to the website for the North Jersey Section of the American Chemical Society as it becomes available. Due to limited seating, advance registration is required. <http://www.njacs.org/caals>.

**Organizing committee:** V. Lombardo (Lexicon), D. Askin (Merck), R. Kong (PTC Therapeutics), R. Ewing (Chair BMS), J. Kozlowski (Schering-Plough), W. Metz (Sanofi-Aventis), S. Hall (Rutgers), M. Prashad (Novartis), S. Erickson (Roche), P. Zhang (Wyeth).



## SCENES FROM NORTH JERSEY SECTION



Dr. John Rogers (center), Awardee with Symposium Speakers, North Jersey Baekeland Committee, and Dr. Catherine Hunt, ACS President.



NCW Poster Contest winners at Plainfield Schools were presented their awards by Bill Suits and Allene Johnson.

## GREEN POLYMERS: MATERIALS, PROCESSES AND PRODUCTS

Pictures from the Polymer Topical Group symposium on November 8, 2007 at Rutgers Busch Campus Fiber Optics Building conference center.

The next symposium will be on Biomaterials in Medicine and Personal Care on May 1, 2008 at the Rutgers Douglass Campus Center. Meeting and poster registration information will appear in the next issue of *The Indicator*.



Speakers at the Session on "Green Polymers: Materials and Processes" — From Left: Karl Krummel (L'Oreal); Rich Durand (Sun Chemical); Charlene Wall-Warren (BASF); Tom Pacansky (Apollo Ventures), Organizer; Willis Hammond (NJIT), Discussion Leader.

Back row: John Thomaides (ICI National Starch); John Warner (WarnerBabcock Institute); Ron deMartino (NJIT), Discussion Leader.  
Front row: Don Schulz (ExxonMobil); Tom Pacansky (Apollo Ventures), Organizer; Dennis Jamiolkowski (JNJethicon).



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## Others

### FAIRLEIGH DICKINSON UNIVERSITY

Chemistry at Florham - Spring 2008 Seminar Series

Tuesday, February 5, 2008

"Flavors and Fragrances: An Overview"

Dr. Bill Orton

SynDesign Corporation

Tuesday, February 19, 2008

"Chemical Solutions to Biological

Problems:

Auxiliary Mediated Site-Specific Peptide Ubiquitylation"

Dr. Champak Chatterjee

Post-doctoral Associate

Laboratory of Synthetic Protein Chemistry at Rockefeller University

March (date TBA)

"Using Chemistry to Discover New Therapeutic Agents"

Dr. John J. Piwinski

Group Vice President Chemical Research Schering-Plough Research Institute

Times: 4:00 PM

Place: Fairleigh Dickinson University  
Science Hall Room 11  
Madison, NJ

Seminar coordinator: Dr. Amber Charlebois  
973.443.8761 [charleb@fdu.edu](mailto:charleb@fdu.edu). FDU  
Department of Chemistry website link  
<http://view.fdu.edu/default.aspx?id=34>

## Call for Nominations

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

## Call for Papers/Abstracts

### 56TH ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Sponsored by: The New York Chemistry Students' Association of the American Chemical Society's New York Section. The symposium provides an excellent opportunity for undergraduate chemistry students in the NY metropolitan area to present the results of their research. The program includes a keynote address by Dr. JaimeLee I'olani Rizzo, Associate Professor of Chemistry at Pace University, presentation of student papers (15 minute talks to small groups), followed by a luncheon.

Date: Saturday, May 17, 2008

Place: Queensborough Community College

For highlights of last year's event:

[http://newyorkacs.org/grp\\_students.html](http://newyorkacs.org/grp_students.html)

To:

1. Submit an abstract on-line
2. Print a flyer for posting - Print "Call For Papers" frame
3. Obtain directions to Queensborough Community College.

Go To: [http://newyorkacs.org/grp\\_students.html](http://newyorkacs.org/grp_students.html)

If you have any questions please contact:

Alyson Hyslop, Co-chair  
[hyslopa@stjohns.edu](mailto:hyslopa@stjohns.edu)

Sharon Lall-Ramnarine, Co-chair  
[slallramnarine@qcc.cuny.edu](mailto:slallramnarine@qcc.cuny.edu)

JaimeLee I'olani Rizzo, Co-chair  
[jrizzo@pace.edu](mailto:jrizzo@pace.edu)



## Call for abstracts for MARM 2008

<http://www.marmacs.org>



### The 40<sup>th</sup> Mid-Atlantic Regional Meeting of the American Chemical Society

Where: Queensborough Community College, Bayside (Queens), New York

When: Saturday, May 17 to Wednesday, May 21, 2008

Online Abstract Submission is open now and closes on Monday, March 15, 2008

Poster and Oral Formats are available

Submit to a specific session or make a general submission.

The following technical symposia are planned:

- Analytical: HPLC Method Development; Protein and Peptide Analysis
- Delaware Valley Chromatography Forum Student Award
- Biomimetic Catalysis and Biocatalysis
- Biochemistry: Bio-Therapeutics; Protein Misfolding
- Chemical Education
- Chemical Evolution
- Chemistry and the Arts
- Clinical Chemistry
- Computational Chemistry
- Environmental Chemistry
- Forensic Chemistry
- Green Chemistry
- HIV/AIDS
- Industrial Chemistry Symposium
- Inorganic Chemistry: Bioinorganic Chemistry; Metal Complexes in Chemotherapy and Diagnostics; Organometallic Chemistry
- Ionic Liquids
- Materials Chemistry: Nanoscience; Synthetic Molecular Machines and Switches
- Medicinal Chemistry
- Organic Chemistry: Antimicrobials; Arthur C. Cope Scholar Symposium; Organic Synthesis toward Targets of Medicinal Interest; Process Chemistry
- Photochemistry
- Physical Chemistry
- Polymer Chemistry: Polymers in Medicine/Bio-inspired Polymers
- Spectroscopy of Biological Systems; Infrared Spectroscopy

The meeting will also feature plenary lectures by:

Ronald Breslow, Columbia University, *The Invention of SAHA, an Approved Anticancer Medicine with a Novel Mechanism of Action*  
Roald Hoffman, Cornell University, *The Chemical Imagination at Work in Very Tight Places*

In addition to the stimulating technical programs, we will have programs on careers in Chemistry, workshops for Chemical Educators, ACS Leadership Development workshops, Student Affiliates activities, and an Industrial Chemistry Award Symposium. MARM will also host meetings of the Royal Society of Chemistry and the Women Chemists Committee, as well as the 56<sup>th</sup> NY-ACS Undergraduate Research Symposium. You may also visit the MARM 2008 Vendor Exhibition, and enjoy social events, including a barbecue and Awards Banquet.

Please visit <http://www.marmacs.org> for registration and abstract submission

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