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### THE INDICATOR

Manager / Editor

MALCOLM STURCHIO

1 Cable Court, Montville, NJ 07045

973-331-5142; Fax 973-331-5143

e-mail: sturchio@optonline.net

Advertising Manager

VINCENT GALE

MBO Services, Inc.

PO Box 1150, Marshfield, MA 02050-1150

781-837-0424; Fax 781-837-1453

e-mail: cust-svc@adelphia.net

INDICATOR COMMITTEE

New York Section Rep.

EVELYN SARNOFF

97-37 63rd Road, Rego Park, NY 11374-1624

718-459-3097

North Jersey Section Rep.

DIANE KRONE

Northern Highlands Regional High School

298 Hillside Avenue, Allendale, NJ 07401

e-mail: kroned@optonline.net

Web Master

ED HARRIS — e-mail: harris7@optonline.net

NEW YORK SECTION

<http://newyorkacs.org>

Chair

JILL REHMANN

Department of Chemistry, St. Joseph's College

245 Clinton Avenue, Brooklyn, NY 11205

718-636-6823

e-mail: jrehmann@sjcnj.edu

Chair-Elect

JOAN A. LAREDO-LIDDELL

391 Palmer Road, Yonkers, NY 10701-5239

914-476-6860

e-mail: jlaredoliddell@aol.com

Secretary

CHRISTIAN ROJAS

Dept. of Chemistry, Barnard College

3009 Broadway, New York, NY 10027

212-854-5480

e-mail: crojas@barnard.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

STEPHEN WALLER

Fairleigh Dickinson University, 285 Madison Ave.,

MI-581-01, Madison, NJ 07940

973-443-8783

e-mail: stephen\_waller@fdi.edu

Chair-Elect

DIANE KRONE

Northern Highlands Regional High School

298 Hillside Avenue, Allendale, NJ 07401

e-mail: kroned@optonline.net

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: 8,500

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

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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](mailto:service@acs.org). Periodicals postage paid at Montville, NJ and additional mailing offices.

Published monthly except July and August. 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.

## April Calendar

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**Thursday, April 6, 2006**  
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**Friday, April 28, 2006**  
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8th Undergraduate Research Symposium  
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### NORTH JERSEY SECTION

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**Friday, April 28, 2006**  
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**Deadline for items to be included in the June 2006 issue of *The Indicator* is April 14, 2006.**

### THIS MONTH IN CHEMICAL HISTORY #2

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

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

In my last column I began to present a view of the chemistry of medical practice as presented in "The Elements of Medical Chemistry" by John Ayrton Paris M.D., F.R.S., F.L.S., Fellow of the Royal College of Physicians of London, published in New York in 1825. When this text was published Dalton's atomic theory, as first published by Thomas Thompson, was only a decade and a half old, and electrochemistry was only a decade older than that, but Paris, a really up-to-date author for his time, has much to say about both these concepts.

His chapter "On the Proportions in which Bodies Combine, and on the Atomic Theory" has sections on "the Daltonian doctrine, or atomic theory; On the weights of atoms; Chemical equivalents; Wollaston's logometric scale; Importance of the doctrine of definite proportion; and Practical application of the doctrine of equivalents." Of Dalton, Paris, quoting Thomas Thompson, says that he "deservedly enjoys the glory of having permanently established a theory ... which ... must be considered as the greatest step which Chemistry has yet made as a science." The explanation of the atomic theory which follows is clear and comprehensible — very much as you or I might give it before an elementary chemistry class — but it is noteworthy that Paris does *not* use the Daltonian symbols for the atoms of the elements, probably because his printer did not wish to make the expensive engravings that were required. Instead he uses abstract alphabetic letters like A and B in his numerical examples. He notes that the basis of the atomic weight scale differs with different chemists: "Mr. Dalton has made election of Hydrogen for this purpose because it is the lightest of all known bodies, ... on the other hand, Wollaston, Thomson, and Berzelius, have assumed Oxygen, from its almost universal relations to chemical matter [i.e. many more elements form oxides than hydrides] as the decimal unit (the first making it 10, the second 1, and the third 100." Paris skips lightly over the question that vexed chemists for the next 40 years, that is how is one to assign formulas to molecules. Though we are 14 years after Avogadro's hypothesis it was not to make much of an impact on most chemists until after 1860. He simply points out that Davy has not accepted the Daltonian doctrine; that Dalton assumes water to be made up of one atom of hydrogen and one atom of oxygen (by his rule of simplicity); that Davy supposes that equal measures of different gases contain equal numbers of atoms, from which it is concluded that water contains two atoms of hydrogen to one of oxygen. And that: "It is, however, quite indifferent which we adopt, a very simple process reconciles them." [1]

Wollaston's logometric scale, referred to above, was an ingenious contrivance developed by that distinguished scientist (one of my favorites of the early nineteenth century) to facilitate quantitative calculations in analytical chemistry. It is a slide rule on which are marked the chemical equivalents of many reagents, both elements and compounds. It proved to be so useful that it was produced commercially and sold to chemists not only in Europe but also in the United States in the first decades of the nineteenth century.

Finally, in concluding my discussion of this most interesting volume, let me turn to the brief chapter on the then very new field of electrochemistry. After explaining the difference between static and galvanic electricity — or, as we might call it, voltaic electricity — Paris describes some fascinating experiments by Dr. W. Philip and other English physiologists in which the digestion of parsley by rabbits was found to be stimulated by the application of electric currents to certain stomach nerves. After describing a more practical battery than Volta's original pile, the author explains the laws of electrochemistry as deduced by Sir. H. Davy. The terms electro-negative and electro-positive, so familiar to all chemists these days, were still quite novel in 1825. Dr. Paris explains them clearly with reference to electrolysis experiments and even suggest the possibility of using electricity to dissolve calculi such as kidney- or gall-stones.

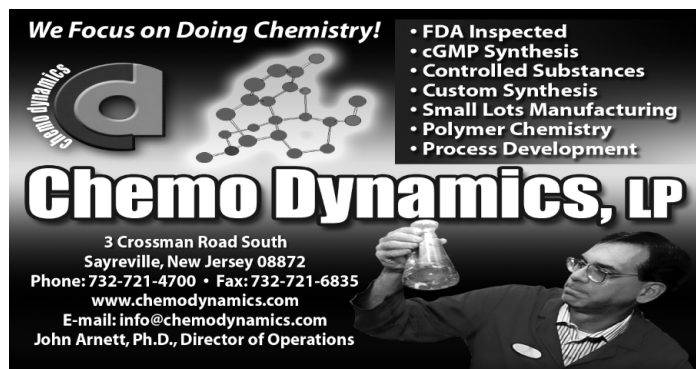
The study of old texts is recommended to all serious students of the history of chemistry. These books show the subjects and theories that were deemed of importance in their times, and give students a perspective on the chemists of former times that is hard to achieve even reading between the lines of histories of chemistry.

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## New York Meetings

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### HUDSON-BERGEN CHEMICAL SOCIETY—JOINT MEETING WITH THE CHEMISTRY CLUB OF RAMAPO COLLEGE, SIGMA XI AND THE SCIENTIFIC RESEARCH SOCIETY

In Search of the Magic Lasso: The Truth about the Polygraph

*Speaker:* Dr. Stephen E. Fienberg  
Department of Statistics  
Center for Automated Learning and Discovery, and Cylab  
Carnegie Mellon University  
Pittsburgh, PA

Tens of thousands of individuals undergo polygraph security screening examinations in the U.S. every year. How good is the polygraph in detecting deception in such settings? Is there a scientific underpinning for the detection of deception? Are there suitable alternatives to the polygraph for security screening? Three years ago, the NAS-NRC Committee to Review the Scientific Evidence on the Polygraph released its report, "The Polygraph and Lie Detection," addressing these issues. Professor Fienberg chaired this committee and will talk about the answers to these questions and how they illustrate the nexus of science,

policy, and myth. He will also discuss some of the technical statistical issues underpinning the committee's work and what has transpired since the report was issued.

Stephen E. Fienberg is Maurice Falk University Professor of Statistics and Social Science in the Department of Statistics, the Center for Automated Learning and Discovery, and Cylab, all at Carnegie Mellon University. He has also taught at the University of Chicago, the University of Minnesota, and York University. He is a fellow of the American Academy of Political and Social Science, the American Association for the Advancement of Science, the American Statistical Association, and the Institute of Mathematical Statistics, an elected member of the National Academy of Sciences, and a fellow of the Royal Society of Canada. He is well known for his work on the analysis of categorical data, confidentiality and data disclosure, and the application of statistical methodology in a broad spectrum of the sciences, including the forensic sciences.

**Date:** Friday, March 30, 2006  
**Times:** Social 5:30 PM  
Dinner 6:00 PM  
Seminar 7:00 PM  
**Place:** Ramapo College of New Jersey  
Room: Trustees Pavilion 1  
Mahwah, NJ  
**Cost:** \$20.00; \$10.00 for students; no cost for seminar only  
**Contact:** Dr. Stephen Anderson, Ramapo College, [standers@ramapo.edu](mailto:standers@ramapo.edu)

## Education

THE STATE UNIVERSITY OF NEW JERSEY  
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### H. Martin Friedman Lecture

April 21, 2006

#### Robert Stroud

Department of Biochemistry and Biophysics  
University of California—San Francisco

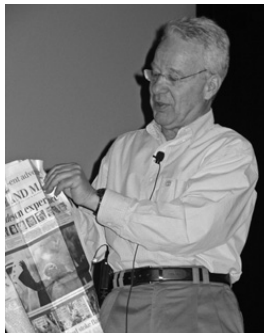
Renowned protein crystallographer Robert Stroud will speak about his recent research.

The lecture will be held on Friday, April 21 at 11:30 in Hill Hall, room 108, on the Newark Campus of Rutgers. A coffee social will precede the lecture at 11:00 in 338 Olson Hall. See <http://chemistry.rutgers.edu> for directions to the campus.

## HUDSON-BERGEN CHEMICAL SOCIETY

Pictures from Hudson-Bergen "Magic of Chemistry" and "Chemistry of Wine" programs featuring Dr. Ariel Fenster at the February meeting held at Ramapo College.

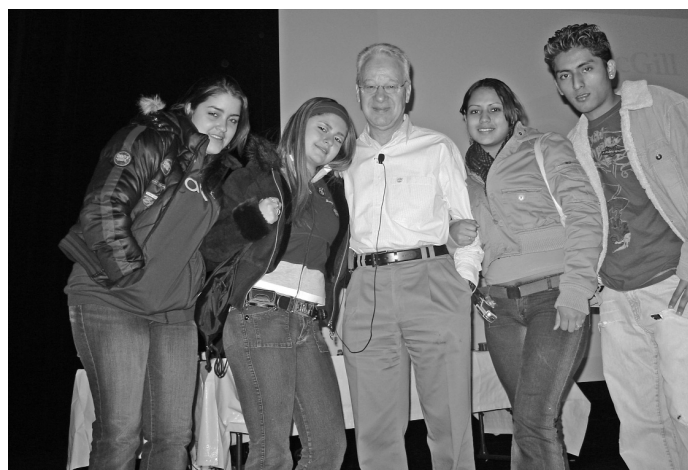
*Photos courtesy of Dr. Grace B. Borowitz*



Dr. Ariel Fenster



"Chemistry of Wine" — Dr. Ariel Fenster (on left) and Dr. Bob Slimel (Ramapo College).



Union Hill HS students with Dr. Ariel Fenster, McGill University (center). The students are from left to right: Claudia Franco, Eryl Palacio, Nadia Fabara, and Christian Cerna.

## CHEMICAL MARKETING & ECONOMICS (CM&E) GROUP

### Globalization and the Changing Face of the Scientific Enterprise: Is the World Really Flat?

Speaker: Madeline Jacobs  
Executive Director  
American Chemical Society  
Washington, DC

Date: **Thursday, April 6, 2006**

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, April 4** (12 noon). \$55 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price.

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## LONG ISLAND SUBSECTION

### Chemical Applications of the Mössbauer Effect

Speaker: Dr. Clive Wynter  
Chemistry Department  
Nassau Community College

Mössbauer Spectroscopy had its genesis in 1958 when Professor Rudolf Mössbauer discovered this nuclear phenomenon. The first generation Mössbauer spectroscopy deals with the recoil-free emission and resonant absorption of nuclear gamma rays and is applicable to certain nuclides which have a low-lying nuclear energy level. This analytical technique has continued to remain in the forefront because of the continued innovations in the field as well as the versatility of the technique to geology, chemistry, physics, biology, medicine and other scientific areas.

The present seminar discusses and illustrates the chemical applications of this technique to a number of organometallic sys-

tems of iron, tin, iodine, europium.

Date: **Thursday, April 6, 2006**

Times: Coffee 5:15 PM  
Seminar 6:00 PM  
Dinner 7:00 PM

Place: Nassau Community College  
252 College Center Building



## METROWOMEN CHEMISTS

### Outstanding Women Scientist Award

Metrowomen Chemists, the New York-North Jersey Women Chemists Committee, is co-sponsoring the annual Outstanding Women Scientist Awards ceremony, organized and co-hosted by the Metropolitan New York Chapter of the Association for Women in Science and the Women Investigator's Network of the New York Academy of Sciences. Honorees will be announced on the North Jersey and New York web sites

Date: **Tuesday, April 25, 2006**

Times: Reception with hors d'oeuvres  
6:00 PM  
Awards Ceremony 7:00 PM

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Place: New York Academy of Sciences  
2 E 63rd Street, New York, NY

Cost: Cost of the reception is \$25 per person [\$10 students and postdoctorals] cash or check only. The Awards Ceremony is free and open to all interested.

Payment for the reception must be received in advance. Please send checks made out Metro NY AWIS to Dr. Nancy M. Tooney, 100 Remsen St. #5G, Brooklyn, NY 11201. Checks must be received no later than Thursday April 20st. Limited financial support for students and postdoctorals is available. For information contact Nancy Tooney at 718/855-5020 or [nmt02@att.net](mailto:nmt02@att.net) ASAP.



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

### The Role of Notch Signaling in CNS Disorders

Organizer: Robert Martone, Wyeth

Speakers: Rafael Kopan  
Washington University  
St. Louis

Charles Eberhart  
Johns Hopkins University

Stephen DeArmond  
University of California  
San Francisco

Barbara Osborne  
University of Massachusetts  
Amherst

The Notch signaling pathway plays a key role in cell fate determination throughout development. The study of Notch signaling gained urgency when it became clear that Notch signaling was dependent upon the activity of a key therapeutic target for Alzheimer's Disease, the APP gamma secretase. There is increasing evidence that aberrant Notch signaling plays a role in the

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pathogenesis of a number of neurological disorders, including multiple sclerosis, prion disease and brain tumors, and this evidence suggests that Notch may itself be a potential therapeutic target. This symposium will provide an overview of Notch biology, and will also review the possible utility of gamma secretase inhibitors in MS, the dependence of Prion induced dendritic atrophy on Notch signaling, and the importance of Notch balance in CNS tumorigenesis.

Date: **Tuesday, April 25, 2006**

Time: 1:00 PM – 5:00 PM  
Place: New York Academy of Sciences  
2 East 63rd Street  
(between Madison and Fifth)  
New York, New York

Cost: 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.

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## HIGH SCHOOL TEACHERS TOPICAL GROUP

"Demo Derby" An evening of non-stop demonstrations suitable for the science classroom by members of the Chemistry Teachers' Club of New York and the Physics Teachers Club of New York

**Date: Friday, April 28, 2006**

**Time:** 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.)

**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.



## HUDSON-BERGEN CHEMICAL SOCIETY — JOINT MEETING WITH THE SCHOOL OF NATURAL SCIENCES OF FAIRLEIGH DICKINSON UNIVERSITY

### The 8th Annual Undergraduate Research Symposium

#### "Time Resolved Fluorescence Studies of U1A Protein Dynamics"

**Speaker:** Dr. Joseph Knee  
Wesleyan University

The U1A snRNP protein binds to RNA using

an RNA recognition motif (RRM) also called the RNA binding domain (RBD). Upon binding RNA the protein undergoes significant structural change highlighted by reorientation of the terminal C helix. Picosecond time-resolved fluorescence anisotropy measurements are used to measure the extent and time scale for this motion using tryptophan fluorescence probes located at several positions by mutagenesis. Results of these experiments will be presented along with data from molecular dynamics simulations which are used to model the helix motion.

Joseph Knee obtained his BA in Chemistry from SUNY at Binghamton and his Ph.D. from SUNY at Stony Brook. He was also a postdoctoral fellow at Caltech in the laboratory of Dr. Ahmed Zewail. Since 1986 he has been teaching physical chemistry at Wesleyan University in Middletown, CT. His research effort is directed, among other directions, toward understanding fundamental dynamic processes which occur in energized molecular systems. Use and development of new techniques for measuring ultrafast phenomena is a major part of his group's research effort too. Specific areas of development include novel fluorescence measurements, pump probe photoionization techniques and the application of photoelectron spectroscopy to the measurement of dynamics of molecular states. In particular, they have developed time resolved ZEKE photoelectron spectroscopy as a versatile tool for studying molecular dynamics.

The chemistry programs of the following colleges are members of the Hudson-Bergen Chemical Society

- Essex County College
- Fairleigh Dickinson University
- New Jersey City University
- Ramapo College of New Jersey
- St. Peter's College
- Stevens Institute of Technology

This is a forum for undergraduate students and their faculty mentors from colleges and universities that participate in the subsection's activities to present the results of their research. Outstanding graduating students

are also being recognized (they receive the Hudson-Bergen Chemical Society Award consisting of a certificate and a book, courtesy of John Wiley and Sons). All the presenters will receive certificates.

Students who wish to present posters must send an abstract via e-mail to [mleonida@fdu.edu](mailto:mleonida@fdu.edu) by **April 14, 2006**. The abstract should be in MS Word format and must include the names and addresses of the student(s) and their faculty adviser(s) in addition to the title of the abstract. The abstract should not exceed 200 words. The name of the student presenting the poster should be underlined. There is no registration fee.

**Date: Friday, April 28, 2006**

**Times:** Social/Poster Session 5:00 PM  
Dinner 6:00PM

**Place:** Dickinson Hall Café  
Fairleigh Dickinson University  
Teaneck, NJ

**Cost:** \$20.00 for faculty and  
\$10.00 for student.  
The lecture is free.  
(Dinner cost for student presenters  
and awardees is waived.)

Reservations: Dr. Mihaela Leonida 201-692-2338, email: [mleonida@fdu.edu](mailto:mleonida@fdu.edu) by April 24, 2006.



## 54th ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

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

### Ionic Liquids: Salts for the Earth

**Speaker:** James F. Wishart  
Brookhaven National Laboratories

**Date: Saturday, April 29, 2006**

**Place:** St. John's University  
Queens, NY

The symposium provides an excellent opportunity for undergraduate chemistry students in the NY metropolitan area to present the results of their research. The pro-

gram includes a keynote address, presentation of student papers (15 minutes each in small groups), followed by a luncheon.

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Student Affiliate Committee,  
[slallramnarine@qcc.cuny.edu](mailto:slallramnarine@qcc.cuny.edu)

JamieLee Rizzo, Co-chair, Student Affiliate  
Committee, [jrizzo@pace.edu](mailto:jrizzo@pace.edu)



## LONG ISLAND SUBSECTION — TENTH ANNUAL FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM

### NPS Pollution — What's in Your Sump?

**Speakers include:** Kimberly Rancourt  
Long Island South Shore  
Estuary Reserve Office

John T. Tanacredi, Ph.D.  
Dowling College

Robert Turner, Ph.D.  
Long Island University

Bruce Brownawell, Ph.D.  
Stony Brook University

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Email questions to Dr. Barbara Hillery at [hilleryb@oldwestbury.edu](mailto:hilleryb@oldwestbury.edu).

**Date: Thursday, May 25, 2006**

**Place:** Hofstra University  
Hempstead, NY

Plan now to attend! And watch for updates at [www.newyorkacs.org](http://www.newyorkacs.org).

**PICTURES FROM NEW YORK SECTION SECTIONWIDE CONFERENCE**



Dr. James Canary (Professor of Chemistry, NYU and 2005 Chair of the NY ACS) being presented a Service Plaque by Dr. Jill Rehmann (Professor of Chemistry, St. Joseph's College-Brooklyn and 2006 Chair NY ACS).



Dr. Frank Romano, past Treasurer of the NY ACS (2000-2005) with his Service Plaque and Dr. Jill Rehmann.

*Photos courtesy of Dr. Grace B. Borowitz*



Dr. Jill Rehmann, Dr. David Rahni (Professor Pace University and NY Section Outstanding Service Awardee for 2005) and Dr. Yorke Rhodes (Professor, NYU and Chair of Selection Committee for the Outstanding Service Award).

(From left): Dr. Jill Rehmann, Dr. Mark J. Mulvihill (OSI Pharmaceuticals), Dr. Ted Deisenroth (CIBA Specialty Chemicals), and Dr. Jack Cordova (Pepsi-Cola Corp.). The latter three were speakers in a Symposium "Preparing the Next Generation of Chemists: A Partnership Between Academia and Industry".



**North Jersey Meetings**

<http://www.njacs.org>

**EXECUTIVE COMMITTEE AND SECTION MEETING**

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting and to become more involved in section activities.

**Date:** Monday, April 24, 2006

**Time:** 5:30 PM

**Place:** Fairleigh Dickinson University College at Florham Rice Lounge, 1st Floor of the New Academic Building Madison, NJ

**Cost:** \$5.00 - pizza dinner

Directions: can be found at [view.fdu.edu/](http://view.fdu.edu/)

Reservations: call 732-463-7271 or email [njacsoffice@aol.com](mailto:njacsoffice@aol.com) prior to Wednesday, April 19, 2006. Dinner at the Section 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.



**CHAIR'S HIGHLIGHTS FROM THE JANUARY EXECUTIVE COMMITTEE MEETING**

Officers of the section reported to the committee and visitors on their activities. The need for more involvement from younger chemists in our section activities was expressed the chair, chair-elect, and the past chair. If you are an ACS member and 35 years old or younger, take a moment to contact the section chair at [waller@njacs.org](mailto:waller@njacs.org) to find out how being involved in the section's Younger Chemist Committee can be fun and useful for you and for our profession. Other business included a presentation from the chair of the

Organic Topical Group, who requested the creation of a new award in synthesis. The executive committee provided direction on how this can best be achieved, and a decision on approving the award will be made at the February meeting. A call was made for more people to help with our section's Project SEED program, which places students from economically disadvantaged high schools into academic and industrial research labs to gain real chemistry training and mentorship during the summer. This program continues to support over 100 students, helping to motivate them to go to college for degrees in science. If you are interested in helping as a mentor, coordinator, or monetary donor, please contact the section chair at [waller@njacs.org](mailto:waller@njacs.org). In sadness, the committee recognized the passing of Fred Bollinger, who served the section for many years, including being the section chair for one year.



**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, April 6, 2006**, 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.

## NJ MASS SPECTROMETRY DISCUSSION GROUP

Sponsored by Cohesive Technologies

### Automated, High-throughput Method Development for LC/MS

Speaker: Lisa A. Ford, PhD.  
Scynexis, Inc.  
Research Triangle Park, NC

The popularity of online extraction has greatly increased the throughput of bioanalytical sample analysis, however the optimization of extraction columns and conditions has become increasingly complex and labor intensive as the types of extraction columns and phases has increased. Advances in automated method development software and hardware can be utilized to develop optimized online methods for quick screening of libraries of compounds, as well as method validation for GLP bioanalysis, with minimal labor and time. Using a Cohesive MCM, less than one full workday was required to obtain an optimized, fully validatable method for two compounds of varying polarity and functionality with minimal analyst labor and no hardware change required.

#### Topic 2: TBD

Date: Tuesday, April 7, 2006

Times: Social 5:30 PM  
Dinner 6:15 PM  
Announcements and Presentations  
7:00 PM  
Awards Ceremony 7:00 PM

Place: Somerset Marriott  
Somerset, NJ

Cost: None.

Please visit [www.njacs.org](http://www.njacs.org) for registration.

## TEACHER AFFILIATES

### Executive Committee Meeting

Date: April 10, 2006  
Time: 4:30 PM  
Place: Chatham High School  
255 Lafayette Avenue  
Chatham, NJ

Contact: Diane Krone at 201-385-4810 or  
[kroned@optonline.net](mailto:kroned@optonline.net)

## METRO WOMEN CHEMISTS

See under NY Meetings, page 8.

## ATTENTION NEW JERSEY HIGH SCHOOL TEACHERS

This year's theme for the high school chemistry students Mole Poster Contest is **Mole Madness**.

Posters must be sent to Patti Duncan at High Point Regional High School by Friday, April 28.

Winners will be announced on June 2nd. Scoring rubric, drawing guidelines, and directions for submitting posters are at [www.njacs.org/teachers](http://www.njacs.org/teachers) or contact Patti Duncan at [PDuncan@hpregonal.org](mailto:PDuncan@hpregonal.org).

## OUTSTANDING STUDENT AFFILIATE CHAPTERS

The ACS Society Committee on Education (SOCED) selects student affiliate chapters to receive special recognition on the basis of their programs and activities as described in their annual reports. Awards are classified as outstanding, commendable, and honorable mention. Chapters that do not qualify for these awards receive a certificate of

achievement for meritorious service.

Plaques were presented to these chapters during the 231st ACS national meeting in Atlanta on March 26, 2006. For each of the outstanding, commendable, and honorable chapters, the award-winning institution, chapter president and report writer, and faculty advisers are listed here.

### Outstanding

C of Saint Elizabeth, Morristown, N.J.;  
Christine Haitmanek and Michelle Silva; Sr.  
Marian José Smith

### Honorable Mention

Rutgers, State U of New Jersey, New  
Brunswick, Piscataway; David Fash; John  
Taylor and Barbara Gaffney & John Taylor

William Paterson U of New Jersey, Wayne;  
Marcos Fragosa; Anita Brandolini and  
Amber Charlebois

## TEACHER AFFILIATES

### Professional Development for Teachers - Advanced Placement Chemistry

NJACS-Teacher Affiliates will present a full

day workshop on May 13th to give chemistry teachers the tools they need to teach A.P. Chemistry and to help their students succeed on the A.P. exam. Visit [www.njacs.org](http://www.njacs.org) for more information and to print a registration form or contact Patti Duncan at [PDuncan@hpregonal.org](mailto:PDuncan@hpregonal.org).

## ChemEssentials WORKSHOPS

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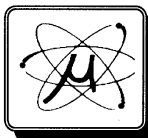
August 26, 2006 - Matter

November 17, 2006 - Gases

February 9, 2007 (Snow date,  
February 16) Solutions

April 20, 2007 - Acids and Bases

Visit [www.njacs.org](http://www.njacs.org) or contact Patti  
Duncan at [PDuncan@hpregonal.org](mailto:PDuncan@hpregonal.org).



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## Call for Nominations

### THE WILLIAM H. NICHOLS MEDAL AWARD for 2007

The New York Section is accepting nominations for the William H. Nichols Medal Award for the year 2007. This distinguished award, established in 1902 by Dr. William H. Nichols, for the purpose of encouraging original research in chemistry, is the first award authorized by the American Chemical Society. It is presented annually in recognition of an outstanding contribution in the field of chemistry, and consists of a gold medal, a bronze replica and \$5000. The medals are presented at the William H. Nichols Meeting that consists of a Distinguished Symposium related to the medalist's field of expertise and a Medal Award dinner.

Investigators who have published a significant and original contribution in any field of chemistry during the five calendar years preceding the presentation meeting are eligible for consideration by the Nichols Medal Jury.

Nomination forms may be obtained from: The American Chemical Society's, New York Section, Inc., Department of Chemistry, St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439. The request may be faxed to 516-883-4003 or e-mailed to [njesper1@optonline.net](mailto:njesper1@optonline.net) (The New York Section Office). The forms can be obtained from the New York Section website also: [www.newyorkacs.org](http://www.newyorkacs.org).

Six copies of the nominating materials and the official nomination form should be sent to the above mail address. Nominations must be received by May 31, 2006. The Nichols Medal Award Jury will meet in June to select the Nichols Medalist for 2007.

For more information about the William H. Nichols Medal and a list of past recipients please visit the New York Section website listed above.



### ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2006

Each year the New York Section presents an Outstanding Service Award to a very deserving member. Many members of the

New York Section provide their time, leadership talent, educational skills and other valuable assets to the New York Section.

The tradition of excellence of the New York Section is directly attributable to the cumulative effect of these individuals. Please help us to recognize the efforts of our colleagues by nominating them for this award. The award will be presented at the New York Section's General Meeting and Section-wide Conference in January 2007.

Nominations with supporting data should be mailed to Dr. Richard Goodman, 38 Aspinwall Road, Briarcliff Manor, NY 10510 or e-mailed to him at [rmgconsulting@msn.com](mailto:rmgconsulting@msn.com).

For more information about the award along with a list of former award recipients, please visit the New York Section website at [www.newyorkacs.org](http://www.newyorkacs.org).

Nominations should be forwarded to Dr. Goodman by **May 30, 2006**.

## Others

### NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL ENGINEERING

Seminar Series - Spring 2006

**April 4**  
"Atom Typing and Its Application to ADMET Prediction"

*Dr. Hongmao Sun*  
Hoffmann-LaRoche, Nutley, NJ

**April 11**  
TBA  
*Dr. Jeffrey Gilam*  
NIST, Bethesda, MD

**April 12**  
"Applications of Process Analytical Technology in Pharmaceutical Development"  
*Dr. John Wasyluk*  
Bristol-Myers Squibb Company  
New Brunswick, NJ

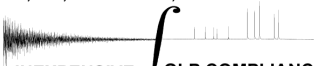
**April 19**  
"Valuing New Jersey's Natural Capital"  
*Bill Mates*  
NJDEP, Trenton, NJ

(continued on page 19)

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### NJIT

(continued from page 16)

#### April 26

"Towards Optimal Tree Alignments"

Dr. Usman Roshan

Dept. of Computer Science

NJIT, Newark, NJ

Times: 11:30 AM - 1:00 PM  
Place: Tiernan Hall Rm. 373

Seminar Series Coordinator:  
Dr. Zeyuan Qiu, 973-596-5357

Zeyuan.qiu@njit.edu

### RUTGERS UNIVERSITY, NEWARK — DEPARTMENT OF CHEMISTRY

Spring 2006 Seminar Series

#### April 7

"Raman Surface Enhancement Using  
Nanofabricated Ag Nanorod Arrays:  
Fundamental Studies and Bioanalytical  
Applications"

Professor Richard A. Dluhy  
University of Georgia, Athens

Host: Mendelsohn

#### April 14

Topic TBA

Professor Arun Majumdar

University of California at Berkeley

Host: He

#### April 21

FRIEDMAN LECTURE

Topic TBA

Professor Robert Stroud

University of California, San Francisco

Host: Jordan

#### April 28

"Controlled Radical Polymerization as a  
Tool for the Preparation of Nanomaterials"

Professor Robert B. Grubbs

Dartmouth College, Hanover, NH

Host: Jäkke

Date: Fridays

Times: Coffee Social - 11:00 AM

Place: Room 338, Olson Chemistry  
Laboratories

Times: Seminars - 11:30 AM

Place: Room 108, Hill Hall.

For further information: [www.njacs.org](http://www.njacs.org)

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## OTHERS

(continued from page 19)

### MIDDLE ATLANTIC REGIONAL MEETING 2006

The 38th Middle Atlantic Regional Meeting (MARM 2006), jointly hosted by the Southeastern Pennsylvania and Susquehanna Valley Sections, will be held from Sunday, June 4 through Wednesday, June 7, 2006, at the HERSHEY Lodge® and Convention Center in Hershey, Pennsylvania. Major symposia are planned around the themes of Analytical Chemistry, Medicinal/Organic Chemistry, Chemical History, Chemical Education (K-12 and college), and Solid State and Materials Science. Special symposia honoring the winners of the Alfred Burger Award in Medicinal Chemistry and the Cope Scholars Award in Organic Chemistry will feature past award recipients and future potential winners. Meeting registration is currently open at [marm2006.org](http://marm2006.org). If you are interested in presenting a paper, but have not yet submitted an abstract, please contact Stephen Waller at [waller@njacs](mailto:waller@njacs) as soon as possible.

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