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presents New York Section 2004  
Outstanding Service Award to  
Dr. Robert Beer**

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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 781-837-8792  
e-mail: vincegal@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**  
JAMES W. CANARY  
Department of Chemistry, New York University  
New York, NY 10003  
212-998-8422  
e-mail: james.canary@nyu.edu  
**Chair-Elect**  
JILL REHMANN  
Department of Chemistry, St. Joseph's College  
245 Clinton Avenue, Brooklyn, NY 11205  
718-636-6823  
e-mail: jrehmann@sjcnj.edu

**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**  
JACQUELINE ERICKSON  
GSK, 1500 Littleton Road, Parsippany, NJ 07054  
973-889-2368  
e-mail: jacqueline.a.erickson@gsk.com

**Chair-Elect**  
STEPHEN WALLER  
Fairleigh Dickinson University, 285 Madison Ave.,  
M-581-01, Madison, NJ 07940  
973-443-8783  
e-mail: stephen\_waller@fdi.edu

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

**Section Office**  
4 Cameron Road, Piscataway, NJ 08854  
732-463-7271

THE INDICATOR-MARCH 2005

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## March Calendar

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### NEW YORK SECTION

**Wednesday, March 2, 2005**  
Westchester Chemical Society  
*See page 13.*

**Thursday, March 3, 2005**  
Long Island Subsection  
*See page 14.*

**Tuesday, March 15, 2005**  
Chemical Marketing & Economics  
*See page 14.*

**Wednesday, March 16, 2005**  
Staten Island Subsection  
*See page 14.*

**Friday, March 18, 2005**  
High School Teachers Topical Group  
*See page 15.*

**Tuesday, March 29, 2005**  
Biochemical Topical Group  
*See page 15.*

### NORTH JERSEY SECTION

**Thursday, March 3, 2005**  
Careers in Transition  
*See page 10.*

**Monday, March 14, 2005**  
Teacher Affiliates Executive Committee  
*See page 11.*

**Tuesday, March 15, 2005**  
ChemTAG  
*See page 11.*

**Thursday, March 17, 2005**  
No. Jersey Group of Small Chemical  
Businesses  
*See page 11.*

**Wednesday, March 23, 2005**  
Chem Central  
*See page 11.*

**Thursday, March 24, 2005**  
Organic Chemistry Topical Group  
*See page 12.*

**Monday, March 28, 2005**  
Executive Committee and Section Meeting  
*See page 10.*

### OUTSTANDING PERFORMANCE AWARD — NEW YORK SECTION OF ACS

**Professor Robert Beer, Fordham University Chemistry Department**

To recognize the efforts of members of the New York Section who have provided their time, leadership skills and dedicated service in promoting quality programs that contribute to the excellence of the Section, the New York Section introduced the Outstanding Service Award in 1976. All members of the New York Section are eligible for nomination. The Committee of four previous award winners usually selects candidates who have contributed over several years or more in leadership of different activities. The list of previous winners reads like a history of the New York Section of the last 30 years. Eleven previous winners were in attendance at the meeting this year.

The award, which may be given annually, consists of an engraved ACS plaque that is presented at the New York Section's General Meeting and Section-Wide Conference each January at which all Subsections and Topical Groups are present, awards are announced, a lecture of general interest is held, and all committee groups meet to plan and discuss their coming year's activities. Usually the January meeting is held at the institution where the prize winner is resident to honor him or her at their home institution.

The 2004 Outstanding Service Award was presented on January 22, 2005 at Fordham University to Professor Robert Beer of the Fordham University Chemistry Department for his contributions to the activities of the New York Section.

Robert Beer was recognized especially for his contributions in organizing and promoting Inorganic Chemistry as a topical group of the New York Section and as a Committee of the New York Academy of Sciences. As the representative member of the group of inorganic chemists in the Universities and Colleges and industries in the New York Metropolitan area, he has organized seminar meetings and an ambitious schedule of activities for the inorganic chemists in the area. This group is now a strong contributor to activity in the chemical sciences in the metropolitan area in both the ACS and the New York Academy of Sciences.

Secondly, Robert took on the organization of the New York Section's activities as the home Section of the September 2003 National American Chemical Society Meeting. This is a complicated responsibility which required coordinating interaction with a myriad of contributing groups from the National ACS office's many groups and activities including staff and the President's Office of the ACS as well as many committees of the ACS and of the New York Section. He coordinated, in addition, the Celebration as an ACS Presidential Event by the New York Section of the 100th Anniversary of the William H. Nichols Award, the first award given by ACS, national or local. He had help from many from ACS and from our Section, but he coordinated it all masterfully. He was also responsible for organizing tours in Manhattan for visiting chemists worldwide and numerous other activities. The September 2003 *Indicator* is a summary of the activities he coordinated.

The New York Section of the ACS is proud to award Robert Beer the Outstanding Service Award of the New York Section for 2004 for his leadership and organizing skills of many activities which enhance the Section's activities for all its members.

Yorke E. Rhodes, Chair  
2004 Outstanding Service Award Committee  
New York Section of the ACS

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Deadline for items to be included in the  
May 2005 issue of *The Indicator*  
is March 15, 2005.

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## CONGRATULATIONS TO A VERY DESERVING JEANNETTE BROWN

By Lois Ember

### ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences

Sponsored by the Camille & Henry Dreyfus Foundation Inc.

When she was six years old, Jeannette E. Brown remembers being so impressed with her African American physician that she decided on the spot to become a doctor. She asked him how one did so, and he replied, "Study science." When she was a junior in high school, she says a teacher "turned me on to chemistry."

Brown graduated from high school in 1952 and entered New York City's Hunter College, where she majored in chemistry. She was one of two African Americans in Hunter's first class in a new chemistry major program. The college was then funded by New York City, and her tuition and books were free. In return for this free education, "we were taught to give back...mentoring others was part of our natural training," Brown says.

She has served as a mentor and role model ever since. And now at age 70, her efforts are being recognized by ACS.

After college graduation, Brown went to the University of Minnesota, where in 1958 she received an M.S. in organic chemistry. She believes that she was the first African American woman to receive a degree in chemistry.

Her research focus at Minnesota was in organic chemistry, and after graduation she sought a position in the pharmaceutical industry. The year was 1958, and, she says, the drug companies "were beginning to open their doors to African Americans." She became a research chemist at Ciba Pharmaceutical (now Novartis) and worked there for 11 years. In 1969, she moved to Merck & Co. For the next 26 years, until she took early retirement in 1995, she synthesized compounds for testing as potential new drugs.

Brown served on Merck's Black University Liaison Commission and was an adviser to faculty and students at Grambling State University, a historically black university in Louisiana. One of the students she mentored became the dean of science at Grambling. Another earned a Ph.D. in biochemistry and an M.D. degree and is a cardiologist in Jackson, Miss. Brown received Merck's Management Award for this work.

Her outreach efforts extended beyond the university level. As part of the National Science Foundation Visiting Women in Science Program, Brown visited high schools in Philadelphia, acting as a role model for students and faculty. She also served for six years on NSF's Committee on Equal Opportunities in Science & Engineering and was able to influence policy on programs for minorities nationwide.

After retirement, she joined New Jersey Institute of Technology, Newark, and became director of the Regional Center for the New Jersey Statewide Systemic Initiative. The center focuses entirely on precollege minority students and their science and math teachers. She recently retired from NJIT and is now the 2004 Société de Chimie Industrielle (American Section) Fellow of the Chemical Heritage Foundation, studying the history of African American women chemists.

Brown has been active in ACS as a councilor, focusing on diversity in elected governance. She also chaired Project SEED at the national level and remains active in this social action program in the North Jersey Section.

In 1990, the Metropolitan N.Y. Chapter of the Association of Women in Science named Brown an "Outstanding Woman in Science." A year later, she was elected to the Hunter College Hall of Fame. In 2002, she received the ACS Women Chemists Committee Regional Award for Contributions to Diversity.

Brown will receive her award at the ACS national meeting in San Diego. The award address will be presented before the Division of the History of Chemistry at the fall ACS national meeting in Washington, D.C.



## EDWIN A. CHANDROSS RECEIVES THE ACS AWARD IN INDUSTRIAL CHEMISTRY

Sponsored by the ACS Division of Business Development & Management



Edwin A. Chandross is "one of the world's premier industrial chemists," according to former colleague Valerie J. Kuck. During his tenure at Bell Laboratories — formerly part of AT&T and now part of its successor, Lucent Technologies — "Ed carried out an exceptional and diverse research and development program aimed at the design and implementation of organic materials and chemical structures for advanced telecommunication technologies," Kuck adds. Before she retired from Lucent in 2001, she was a member of technical staff.

Chandross, 70, earned a B.S. in chemistry in 1955 at Massachusetts Institute of Technology, and an M.A. in 1957 and a Ph.D. in 1960, both in chemistry, at Harvard University.

Chandross says he joined Bell Labs in 1959 as a member of technical staff after the company "made me an offer I couldn't refuse."

The lab, which was doing little fundamental chemical research at the time, invited him to come and set up his own research program. "Jobs like that hardly existed then, and they certainly don't exist today," Chandross says. He and five other newly minted organic chemistry Ph.D.s joined Ed Wasserman, who was already on staff (and who was to become ACS president in 1999). The group "was one of several that put Bell Labs on the map as a real chemistry powerhouse."

"It was a very collegial group," Chandross recalls. "We would comment on and review each others' work in a very friendly style." The collaborative style extended well beyond the circle of chemists. "Multidisciplinary work was a hallmark of Bell Labs, and I enjoyed collaborating with top-notch scientists in many fields," Chandross says.

Chandross flourished, conducting both fundamental and applied research and often bringing his own experience to bear on problems that stumped people in other departments. "It was fun to take something as prosaic as how to remove polymers thoroughly from glassware" — a technique he picked up as a graduate student — "and turn it into an industrial process used in splicing optical fibers," he says.

Holder of approximately 60 patents, Chandross has had a hand in the development of many products and technologies, including some familiar to the public. For example, the light stick products made by American Cyanamid were based on his discovery that hydrogen peroxide reacts with an oxalate to produce an intermediate that can cause many different compounds to fluoresce.

His other advances include the discovery of electron-transfer chemiluminescence; the study of excimer properties; the development of holographic storage materials; a simple photochemical technique to reduce precursor impurities, which yielded lower loss optical fibers; early development of deep ultraviolet photoresists; and new techniques for making thin-film optical waveguides, gratings, and solid-state dye lasers.

After almost 42 years with Bell Labs and Lucent, Chandross retired as director of Lucent's materials chemistry department, though he still does part-time work for the firm. In 2002, he started MaterialsChemistry LLC, a consulting firm in Murray Hill, NJ.

Chandross has served on advisory boards for MIT; the University of California, Los Angeles; and Northwestern University, as well as several editorial boards including Chemical Reviews and the Journal of the American Chemical Society. Chandross is a principal editor of the *Journal of Materials Research* and a fellow of the American Association for the Advancement of Science.

Sophie Rovner

## THIS MONTH IN CHEMICAL HISTORY

Harold Goldwhite, California State University, Los Angeles

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

Let me take you back to 1843 and a dip into "The Year Book of Facts in Science and Art" (I wish I could reproduce the delicious Victorian typography of the original), the earliest in the series that I recently acquired. Published in London by Tilt and Bogue of Fleet Street, the slim and small volume, crammed with information in a tiny typeface, is profusely illustrated. The front illustrations are devoted to earth science and paleontology, with a splendid skeletal rendering of "The Missouri Leviathan", based on fossils found in 1838 in that state. The leviathan was an extinct member of the mastodon family.

But let me turn to chemical science in 1843. MM. Marchond and Erdmann have reported on new determinations of atomic weights with a view to proving Prout's hypothesis - that all atomic weights are integral multiples of that of hydrogen - is correct. Oxygen, carbon, nitrogen, calcium, and silver fall nicely into line (go and check your atomic weight table) but their result for chlorine at 36 is outside acceptable limits even for 1843. An adjacent paragraph mentions that Laurent and Berzelius get results for chlorine that are not in accord with Prout's hypothesis.

There is a long report by Lyon Playfair on Liebig's celebrated book on Organic Chemistry as Applied to Physiology and Pathology, but that topic is so important that I plan to devote a whole column to it in the near future.

Mr. Marsh, of the celebrated test for arsenic, reports a new and improved process for the preparation of gaseous oxygen which consists of heating powdered potassium chlorate with a small admixture of manganese dioxide, a preparative method repeated in thousands of elementary chemistry texts and laboratory courses to this very day. New experiments by M. Magnus on the coefficient of dilatation of elastic fluids (coefficients of thermal expansion of gases in current scientific language) have shown that this coefficient, accepted generally to be

1/480 for each degree Fahrenheit, actually is slightly different for different gases.

A preparation of noiseless Congreves (chemical matches) is reported by Dr. Boettger. The crackling of ordinary Congreves, according to Boettger, is due to the potassium chlorate they contain. The least noise is observed from a mixture of gum Arabic, phosphorus, saltpeter, and vermilion. "In order to prevent the injurious influence of the atmosphere on the mass, it is advisable to cover the points of the matches, after being dipped and dried, with a dilute varnish of copal, or with a solution of gum containing saltpeter."

Mr. Croft read to the British Association (for the Advancement of Science) a paper by Professor Bunsen "On Kakodylic Acid, and the Sulphurets of Kakodyl". Bunsen did extensive researches on cacodyl (modern spelling) that we now recognize as the dimethylarsino group. The 1840's were a period in which attempts were being made to organize organic chemistry in terms of radicles (1840's spelling), which were advanced as being to organic compounds as the elements were to inorganic compounds. Liebig and Woehler characterized the first organic radicle, the benzoyl radicle, in 1832. Bunsen's work on cacodyl cost him dearly; an explosion lost him the sight of one eye. But he persevered, as this article shows, characterizing bis(dimethylarsino) sulfide, and disulfide and the acid we call dimethylarsonic acid, "A very remarkable fact with respect to this body [the acid] is, that the poisonous properties of the arsenic seem totally annihilated; eight grains administered to a rabbit exerted no poisonous action." Incidentally Bunsen's "free" cacodyl radicle was later shown to be the dimer tetramethyldiarsine.

I will close this brief look at some of the significant chemistry reported in 1843 with a comment about another well-known compound. Nicotine was first isolated in a state of purity by the great French analyst Vauquelin in 1809. M. Barrul presented a refined analysis of nicotine in 1843 and reported on some of its properties: "... a powerful alkali, under the form of a liquid, with a very low equivalent ... as compared with other vegetable alkalis. It is also a very energetic poison: a single dropp placed on the tongue of a middle-sized dog, killed him in three minutes."

## WILLIAM H. NICHOLS MEDAL — DISTINGUISHED SYMPOSIUM AND AWARD BANQUET

**Symposium: SHINING LIGHT ON CHEMICAL PROCESSES**

**Award Recipient:** Professor Richard N. Zare  
Marguerite Blake Wilbur Professor in Natural Science  
Stanford University, Stanford, California



**Date:** Friday, April 1, 2005  
**Time:** 1:00 PM Registration, 1:30 PM – 5:30 PM Symposium  
5:45 PM Reception, 6:45 PM Award Dinner  
**Place:** Crowne Plaza Hotel, White Plains, NY

### PROGRAM

1:30 PM	Welcome	Professor James W. Canary 2005 Chair, ACS, New York Section New York University
1:35 PM	Opening of the Distinguished Symposium	Professor Jill K. Rehmman 2005 Chair-elect ACS, New York Section St. Joseph's College
1:45 PM	Molecular Perspectives of Water through Nanomatrix Spectroscopy	Professor Mark A. Johnson Professor of Chemistry Yale University
2:30 PM	Time Resolved Solvent Rearrangement Dynamics	Professor W. Carl Lineberger E.U. Condon Distinguished Professor University of Colorado
3:15 PM	Coffee Break	
3:45 PM	Chemistry at Reaction Thresholds	Professor John I. Brauman J.G. Jackson-C.J. Wood Professor of Chemistry Stanford University
4:30 PM	Reaction Dynamics: Seeing the Light	Professor Richard N. Zare NICHOLS MEDALIST
5:45 PM	Social Hour	
6:45 PM	William H. Nichols Medal Award Dinner	

More information regarding the Symposium is available on the New York Section's website at <http://www.newyorkacs.org>

Tickets may be reserved using the following form:

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\_\_\_\_\_ places for symposium at \$30/person, ACS member; \$40 non-member  
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## North Jersey Meetings

<http://www.njacs.org>

### EXECUTIVE COMMITTEE AND SECTION MEETING

All ACS members are welcome to attend.

**Date:** Monday, March 28, 2005  
**Time:** 5:30 PM  
**Place:** Fairleigh Dickinson University  
New Academic Building, 1st Floor  
Rice Lounge, Madison, NJ  
**Cost:** Dinner \$10.00 (Pizza and Soda)

For reservations, call (732) 463-7271 or email [jppenna@aol.com](mailto:jppenna@aol.com) and state your wish to make reservations for the ACS Dinner before Wednesday, March 23, 2005.

Dinner at the North Jersey Meeting is payable at the door; however, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.

### CAREERS IN TRANSITION GROUP

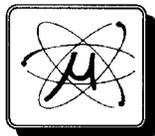
#### Job Hunting??

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

- The latest techniques in resume preparation
- Ways for improving a resume
- Answers to frequently asked interview question and
- Conducting an effective job searching.

The next meeting for the Careers In Transition Group will be held **Thursday, March 3, 2005**, 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 [vkuck@yahoo.com](mailto:vkuck@yahoo.com), if you plan on attending this meeting.



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### TEACHER AFFILIATES

#### Executive Committee Meeting

**Date:** Monday, March 14, 2005  
**Time:** 4:30 PM  
**Place:** Chatham High School  
255 Lafayette Avenue  
Chatham NJ

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



### ChemTAG MEETINGS

**Date:** Wednesday, March 15, 2005  
**Place:** Ramapo High School  
331 George Street  
FranklinLakes, NJ

Contact: Jane Cassidy at [CassJane@msn.com](mailto:CassJane@msn.com)



### NEW JERSEY GROUP OF SMALL CHEMICAL BUSINESSES

Spring Meeting: "What's Happening in Your Industry Sector in 2005? How Can We Help You Manage It?"

Take this opportunity to network with your peers about the rapid changes in the chemical industry – and strategic plans to meet the challenge. In the process, NJGSCB can talk with you about plans for 2005, and blend your input with our program.

**Date:** Thursday, March 17, 2005

**Times:** Networking - Cash Bar 5:30 PM  
Dinner - Attendee Introductions 6:30 PM  
Presentation and Discussion 7:15 PM  
Q & A - Networking - Dessert 8:00 PM  
**Place:** Holiday Inn, North Frontage Rd.  
Newark, NJ  
On north side of Newark Airport  
**Cost:** \$45 for members  
\$55 for non-members

Advance Registration is Required:  
Reserve electronically at our web site: <http://NJChemBus.org>

Reserve by: **March 15, 2005**. Please reserve early.

Cancellation Policy: Please cancel 48 hours before the meeting, or be invoiced.

Check payable to: NJ Group of Small Chemical Businesses

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### CHEM CENTRAL

**Wednesday, March 23, 2005**  
**Place:** Colts Neck High School  
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Contact: Roseann McCarth at [roseannmcc@comcast.net](mailto:roseannmcc@comcast.net)

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## ORGANIC CHEMISTRY TOPICAL GROUP

### Spring Symposium

#### "Cope Award Winners"

*Speakers:* Professor Robert Bergman  
University of California  
Berkeley

Professor David Evans  
Harvard University

Professor Robert Grubbs  
California Institute of  
Technology

Professor Gilbert Stork  
Columbia University

**Date: Thursday, March 24, 2005**

**Times:** Registration will begin at 12:00  
Symposium 1:00 PM  
Reception 5:30 PM  
Dinner 6:30 PM

**Place:** Somerset Marriott  
110 Davidson Avenue  
Somerset, NJ

**Cost:** Symposium and Reception \$60.00,  
with dinner \$85.00  
Students or Post-docs:  
Symposium and Reception \$20.00,  
with dinner \$40.00

For directions/information and more  
updated details please see our website:  
[www.njacs.org/organic.html](http://www.njacs.org/organic.html)

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Ann Gelormini, (Secretary), Sanofi-Aventis

Binh Vu, Hoffmann-La Roche

Lawrence Williams, Rutgers University

Due to limited seating, registration and  
payment are required by **March 15**.

Please check one:

- Symposium Only (\$60)  
 Symposium and Dinner (\$85)

Dinner selection:

- Fish  
 Pasta  
 Beef+Chicken

Check if you are a student or post-doc

Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

E-mail \_\_\_\_\_

To register:

Send above registration information with a  
check made payable to "North Jersey  
Section ACS" to:

Dr. Jianshe Kong  
Schering-Plough Research Institute  
2015 Galloping Hill Rd  
Mail Drop K-15-2 2800  
Kenilworth NJ 07033  
E-mail: [jjianshe.kong@spcorp.com](mailto:jjianshe.kong@spcorp.com)



## TEACHER AFFILIATES

### 2004-2005 Crystal Growing Contest

Attention Chemistry Teachers

Can you grow the largest single crystal?

The American Chemical Society Teacher  
Affiliates North Jersey Section is sponsoring  
a contest guaranteed to stimulate student  
interest in science while teaching concepts  
of saturation, supersaturation, and crystal  
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Watch them take ownership of their crystal  
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be amazed at how fast their crystal grows  
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Two winners will receive \$75 Flinn Scientific,  
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Contest guidelines and an entry form can be  
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**Entry forms are due by April 15th.**

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## New York Meetings

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

## WESTCHESTER CHEMICAL SOCIETY

### Nanotechnology

*Speaker:* Rolande R. Hodel  
CUNY, Queens College  
Graduate Student

Nanotechnology has become a buzzword.  
With increasing government funding for  
nano research and venture capitalists hop-  
ing that this tiny technology will be the next  
big thing, the question arises: "What is  
Nanotechnology and what is it not?" To  
answer this question, the presentation will  
first give a historical overview and then  
explain in more detail the unique physical  
properties of nano material using cadmium  
selenide quantum dots as an example.  
Cadmium selenide is a semiconductor wide-

ly used in computer chip and light emitting  
diode manufacturing. However, synthe-  
sized in size ranging from 2-10 nanometers  
(10-50 atoms) in diameter, they are also  
referred to as quantum dots. At these small  
sizes, materials behave differently giving  
quantum dots unprecedented turnability and  
enabling never before seen applications to  
science and technology.

**Date: Wednesday, March 2, 2005**

**Times:** Social 5:30 - 6:00 PM  
Presentation 6:00 - 7:00 PM

**Place:** Westchester Community College  
Administration Building  
Valhalla, NY

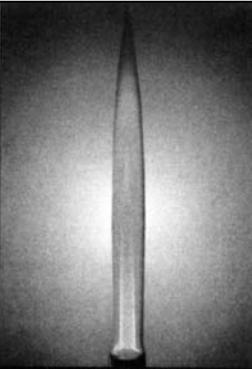
**Times:** Dinner 7:30 PM

**Place:** Gianfranco's Restaurant  
88 Virginia Road  
White Plains, NY

For further information, contact Joan Laredo-  
Liddell at [JLaredoLiddell@aol.com](mailto:JLaredoLiddell@aol.com)

For directions, contact Dr. Bernard Koser at  
[bernard.koser@sunywcc.edu](mailto:bernard.koser@sunywcc.edu)





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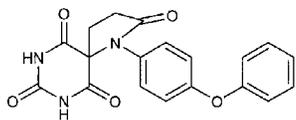
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Turnaround  
Price

## LONG ISLAND SUBSECTION

### Structure-based Design of Potent Inhibitors of Collagenase-3 (MMP-13)

Speaker: Dr. William J. Pitts  
Bristol Myers Squibb Co.

Computer aided drug design led to a new class of spiro-barbiturates (e.g., **4a**, MMP-13 Ki = 4.7 nM) that are potent inhibitors of MMP-13. MMP-13 is implicated in the breakdown of Collagen which in turn is involved in arthritis. Thus development of inhibitors of this enzyme would be expected to have potential therapeutic value in the treatment of this and related diseases.



**4a**

Date: **Thursday, March 3, 2005**

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

Place: Hofstra University, Lister Auditorium  
New Chemistry Building  
California Avenue  
Hempstead, NY

Cost: Dinner \$20 (\$25 with wine)

## CHEMICAL MARKETING & ECONOMICS GROUP

### Keeping R&D Spinning in a Spin-off

Speaker: Dr. L. Louis Hegedus  
Senior Vice President of R&D  
Arkema Inc. (formerly Atofina  
Chemicals, Inc.)  
Philadelphia, PA

Date: **Tuesday, March 15, 2005**

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

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

Fees: \$35 discount price for Members  
who reserve by **Friday, March 11**  
(12 noon). \$50 for Guests and  
Members (at the door without  
reservations)

To reserve: Please reserve early to be eligible for discount price. Call Probe Economics at (914) 923-4505, or via e-mail to: [cmegroup@yahoo.com](mailto:cmegroup@yahoo.com). To pay online by credit card (via PayPal), go to the CM&E Website:  
<http://home.nyc.rr.com/chemmarkecon/>



## STATEN ISLAND SUBSECTION

### Spring Seminar Series

#### "Beyond the Lab and Bench: Alternative Careers in Science"

Speaker: Greta Zenner  
Science Editor  
Interdisciplinary Education Group  
MRSEC  
UW-Madison

Date: **Wednesday, March 16, 2005**

Time: 1:00 PM

Place: Wagner College  
Spiro Hall 2  
Staten Island, NY

For further information, please contact  
Wendy deProphetis at [wdeproph@wagner.edu](mailto:wdeproph@wagner.edu) or 718-390-3405.

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## HIGH SCHOOL TEACHERS TOPICAL GROUP

### Movies: Greenland on the Hudson and Scientist and Eemian

Speaker: Dr. Yuri Gorokhovich  
Dept. of Geology  
Columbia University

Two 20-minute movies: "Greenland on the Hudson," shows Hudson River glacial deposits and takes you back 18,000 years to view a variety of glacial settings which are still visible today; and "Scientist and Eemian," how two scientists obtain climatic records from the Greenland ice sheet. These movies were part of a presentation at the 32nd International Geological Congress, Florence, Italy, August 2004.

Date: **Friday, March 18, 2005**

Time: Social and Dinner 5:45 PM

Place: Caffe Pane e Cioccolato  
10 Waverly Place at Mercer St.  
(southwest 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 (southeast  
corner Washington Square 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: 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

### Statins: Not Just Lipid-Lowering Any More

Organizers: Carolyn Foster  
Boehringer Ingelheim  
Pharmaceuticals  
  
Janet Kerr  
Merck Research Laboratories  
  
June Sonnenberg  
Wyeth Research

#### Featured Speakers:

Ellen L. Berg,  
BioSeek, Inc.

James Monroe  
Merck Research Laboratories

Uwe Schoenbeck  
Boehringer Ingelheim  
Pharmaceuticals

Larry Sparks  
Roberts Laboratory of Neuro-  
degenerative Disease Research

Scott Zamvil  
University of California  
San Francisco

Date: **Tuesday, March 29, 2005**

Time: 9:00 AM – 5:00 PM  
(All Day Meeting)

Place: The Lighthouse International  
Theatre  
111 East 59th Street (between  
Park and Lexington Avenues)  
New York, New York

Reserve a seat on-line at  
<http://www.nyas.org/events> or telephone  
212.838.0230 x 322.

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## NEW YORK CHEMISTRY STUDENTS' ASSOCIATION

### 53rd Annual Undergraduate Research Symposium

The New York Chemistry Students' Association of the ACS, NY-Section will hold its 53rd Annual Undergraduate Research Symposium at Stony Brook University, Stony Brook, NY, on **Saturday, May 7, 2005**. Information regarding the symposium including electronic submission will be available on the following website: [http://www.newyorkacs.org/grp\\_students.html](http://www.newyorkacs.org/grp_students.html).

The deadline for submission is **April 5, 2005**. Faculty who are directing the research efforts of undergraduate chemistry students are asked to encourage their students to participate in this worthwhile event.

**Date:** Saturday, May 7, 2005

**Times:** Registration 9:30 AM  
Symposium to follow

**Place:** Stony Brook University  
Stony Brook, NY

For commute information go to <http://ws.cc.stonybrook.edu/sb/directions.shtml>

For further information contact: [rkabbani@pace.edu](mailto:rkabbani@pace.edu) or [jrehmann@sjcny.edu](mailto:jrehmann@sjcny.edu).

## LONG ISLAND SUBSECTION

### Ninth Annual Frances S. Sterrett Environmental Chemistry Symposium

"Long Island Air Quality – To Breathe or Not To Breathe?"

**Date:** Thursday, May 26, 2005

**Place:** Hofstra University  
California Avenue  
Hempstead, NY

Speakers to include representatives from the EPA, OSHA, and the New York DEC.

Reserve the date now!

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Watch for program updates at <http://www.newyorkacs.org>.



## SCENES FROM NEW YORK SECTION ACTIVITIES

### Westchester Chemical Society



Jean Delfiner, Joan Laredo-Liddell, co-chairs of WCS, and Bernard Koser (right), past chair, with Yuri Gorokhovich of Columbia University, December presenter. Topic: "The Volcanic Eruption on the Greek island of Santorini."



Jean Delfiner (co-chair WCS), Bernard Koser (past chair), Robert Hilbrandt, Jr., October presenter, Joan Laredo-Liddell (co-chair), October topic: "Radon Occurrence and Health Risk."

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## National Chemistry Week



First Harlem Science Street Fair and Festival that included the Health and Wellness Theme of NCW, as well as music and dancing. It was organized by Dr. Sat Bhattacharya, Research Scientist at Memorial Sloan-Kettering Cancer Center, Molecular Pathology.

## MORE SCENES FROM NEW YORK SECTION ACTIVITIES

### High School Teachers Topical Group



Ivi Tamm and Joan Laredo-Liddell of HSTTG presenting at the November STANYS (Science Teachers Association of New York State) conference in Ellenville, NY.



Dr. Peter Corfield and Bob Dayton checking out ACS materials that were distributed by Joan Laredo-Liddell at the STANYS conference.

— Photos courtesy of Joan Laredo-Liddell



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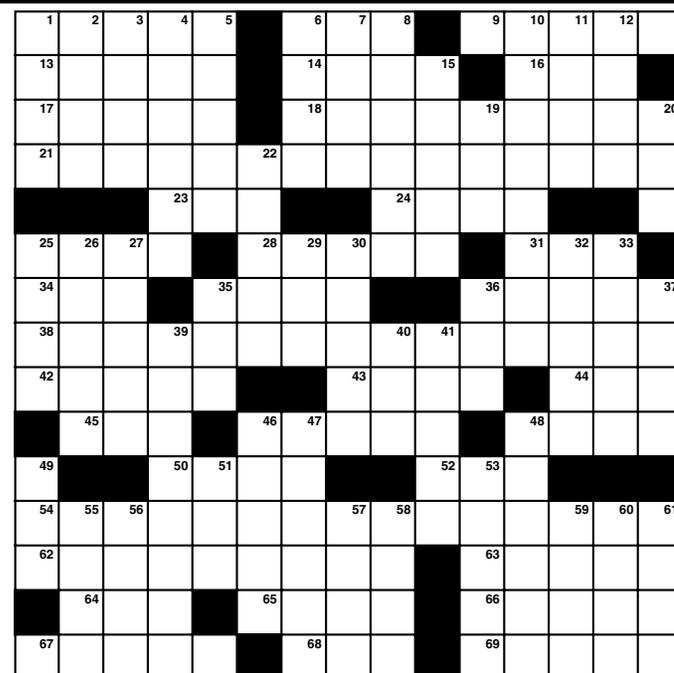
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## Puzzle — SCIENCE CLASS



### ACROSS

1. Fine grained minerals
6. Organic gunk
9. Pertaining to the city
13. Annapolis has one
14. Sarcastic comment
16. Rock star John, for short
17. Section of poem
18. Characteristic
21. Explosive fluid
23. \_\_\_lyte (altar attendant)
24. Aid
25. Dry ice vessel
28. Winnie the Pooh author
31. Scotch headgear
34. Litmus in acid
35. Shout "Ole" for El \_\_\_
36. Rants
38. Lab Glassware
42. Constructed
43. Sed \_\_\_ (drugged)
44. You (French, objective)
45. Elements 41 and 53
46. Gush forth
48. River feature
50. Electronics term
52. \_\_\_ Baba
54. Soda ash

### DOWN

1. Discretion
2. Seaweed product
3. Ms. Anderson
4. Brief slumber
5. Impassive
6. Russian ruler
7. Female voice
8. Wickerwork fiber
10. Counter argument
11. Litmus in base
12. Corresp. abbrev.
15. Surgical instrument
19. \_\_\_ de France
20. Homophone of 19 down
22. Mother's day gift card says it \_\_\_ (claf)
26. Typical summer TV show

27. Impromptu
29. Anger
30. Steadfast
32. Chalcedony
33. High energy particle
35. See 21 across
36. Country mail route
37. Chains will prevent it
39. Meets all requirements
40. And so forth
41. Recovery
46. Wife's name for other woman
47. California oak
48. Double star
49. Wealthy nation
51. Elements 79 and 18
53. In the neighborhood
55. Gymnast Korbut
56. Platform for honored guests
57. Body orifice
58. Breathing (abbrev.)
59. Component of matter
60. Cels. or Faren.
61. Bunny cousin (reversed)

**Solution on page 27.**

## MARM 2005

The 37th Middle Atlantic Regional Meeting (MARM 2005), hosted by the North Jersey Section, will be held at Rutgers University, Busch Campus, Piscataway, NJ, **May 22-25, 2005**. The theme of the meeting is "Chemistry at the Crossroads of Science" and will feature the most popular technical programming combined with the best features of a National ACS meeting tailored to the needs and interests of area scientists. Abstract submissions are sought from undergraduate and graduate students, and from professional industrial and academic chemists in all areas of chemistry.

The meeting will feature invited speakers at major symposia including "Bench to Pilot Plant", "Visions in Chemistry" (sponsored by Aventis), "Environmental & Green Chemistry", "Pharmaceutical Profiling", "Protein Family-Targeted Medicinal Chemistry- The Practice of Medicinal Chemistry in the Age of Chemogenomics", "Advances in Organic Chemistry", "Organometallic Catalysis", "Novel Instrumentation and Applications of Mass Spectrometry in ADME Studies", "Functional Proteomics and Cell Signaling", "Biomarkers: Quantification, PK/PD Correlation and Bioanalytical Issues", "Applications of LC-MS in Drug Discovery/Development", "Solid State and Materials Chemistry", "Nanoscience and Technology and Solid State & Materials Chemistry/Surface Chemistry", "Materials Chemistry/Inorganic & Organic Polymers" and "ADMET at the Crossroads of Drug Discovery". There will also be a special symposium, sponsored by the Organic Chemistry Division, honoring a Cope Scholar Awardee. Several chemical engineering mini-courses will also be offered by ACS & AIChE. The Waksman Antibiotic Drug Discovery Process will

receive an ACS National Landmark Award for developing the cure for TB and many other infectious diseases. The Waksman National Chemical Landmark Symposium will mix history with modern antibiotic discoveries. The Regional Innovation awards will also feature a related symposium.

Sunday, May 22, 2005, designated "Science Education and Career Day," will celebrate the 100th anniversary of the New Jersey Science Teachers Association. High-school students, their parents and their teachers from throughout the region are encouraged to attend. Events will include chemistry and physics demonstrations, showings of the IMAX film "Volcanoes of the Deep" with commentary by the science advisor for the film, student and industrial panels to discuss college and career opportunities in several areas, symposia in several disciplines centered about the theme "100 Years Then and Now," workshops for teachers, poster presentations and lunch with a scientist. The program will provide unique opportunities for students, teachers, and scientists from diverse disciplines to mix with each other in an informal, informative atmosphere.

In addition to technical symposia there will be a number of special events including an awards banquet on Wednesday evening where 50-year members will be honored along with the winners of a number of ACS regional awards. Special lunches will be held for Senior Chemists and the Women Chemists Committees. There will also be a "Roving Feast" Monday & Tuesday evenings, May 23rd & 24th, in conjunction with special programming, vendor exhibits and posters. Student Affiliates will have a full program for sharing their research, outreach programs, eminent scientist lecture and life in their chapter.

The online abstract program and advance registration opened November 16, 2004. Abstracts will be accepted until March 15, 2005. Submit online through the MARM 2005 website at [www.marmacs.org](http://www.marmacs.org), and visit the website for periodic program updates. For more information, please contact the Technical Program Co-Chairs, Les McQuire at [leslie.mcquire@pharma.novartis.com](mailto:leslie.mcquire@pharma.novartis.com) or Joseph Potenza at [jpotenza@rutchem.rutgers.edu](mailto:jpotenza@rutchem.rutgers.edu).



## MARM 2006

### Chemistry in Chocolate Town.

The Susquehanna Valley Section and the Southeastern Pennsylvania Section are teaming up to bring the Middle Atlantic Regional Meeting to Hershey, PA in 2006 (<http://www.marm2006.org>). MARM 2006 will be held from June 4 to 7 at the beautiful Hershey Lodge and Convention Center. There will be something for every chemical professional at MARM 2006. We will open on Sunday June 4th with an all-day teacher's conference. Whether you teach elementary, middle or high school there will be many opportunities to attend workshops, learn about new teaching techniques, new experiments and to network with other science / chemistry teachers. Monday through Wednesday morning will be filled with symposia covering the vast array of chemical sciences including but not limited to the chemistry of chocolate (we are after all in Hershey "The Sweetest Place on Earth"), chromatography, capillary electrophoresis, forensic chemistry, drug development, medicinal chemistry, polymer chemistry, chemistry education, and organic chemistry.

MARM 2006 will also include plenary talks, an exhibition program, an awards ceremonies, and a visit by Joseph Priestley played by the Susquehanna Valley Section's own Ronald Blatchley.

In addition to the science, Hershey (<http://www.marm2006.org/area.html>) is an excellent place to vacation. We will put our own special twist on the traditional Bar-B-Que by holding it at Hershey Park (<http://www.hersheypa.com/attractions/hersheypark/index.html>). Hershey is just a short drive away from Lancaster, Pennsylvania Dutch country, and the state capitol in Harrisburg. For more information about area attractions check out our attraction web site (<http://www.marm2006.org/area.html>). Bring your family and enjoy Hershey, and the surrounding areas.

We in the Susquehanna Valley and Southeastern PA sections are looking forward to seeing you at MARM 2006 in Hershey for Chemistry and fun!



## NEW JERSEY CHEMISTRY OLYMPICS-2005

### A Competition for High School Students

Date: **Wednesday, May 4, 2005**  
Place: NJIT  
Newark, NJ

There are three categories of events: Research, General, Laboratory. Turn your students on to chemistry. Go to <http://web.njit.edu/chemistryolympics/> for more details and for information about registering a team.

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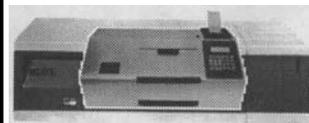
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## Call for Nominations

### THE PAUL J. FLORY POLYMER EDUCATION AWARD

Purpose: To recognize, encourage, and stimulate outstanding achievements by an individual in promoting undergraduate and/or graduate polymer education.

Nature: The award consists of a plaque and an honorarium of \$2000. The award is usually presented biennially in even-numbered years at the Spring meeting of the Polymer Chemistry Division. The recipient is expected to present an address at a symposium organized in his/her honor. Reasonable travel expenses to the meeting are paid in addition to the honorarium.

Establishment and Support: The award was established in 1981 and is administered by the Polymer Chemistry Division. The DuPont Company sponsors the award.

Previous Recipients: Herman F. Mark, Carl S. Marvel, Paul J. Flory, Maurice Morton, Charles G. Overberger, George B. Butler, Eli M. Pearce, Leo Mandelkern, Eric Baer, Roger Porter, James E. Mark, U. W. Suter and the team of James E. McGrath, Thomas C. Ward and Garth L. Wilkes.

Rules for Eligibility: A nominee must be a member or affiliate of the ACS Division of Polymer Chemistry at the time of nomination. The award shall be granted to an individual or team for significant contributions in furthering polymer education. The award shall be granted to an individual or team without regard to race, color, national origin, sex, religion, age, disability, or sexual orientation.

Nomination Procedure: Eight (8) collated individual copies of a complete nominating document, including a synopsis of the accomplishments of the nominee, a curriculum vitae, and a maximum of five reprints or other supplementary material for each copy, shall be submitted to the Awards Chairman for distribution to the committee. The document should be letter-size. A maximum of three (3) supporting letters, which contain factual information about the candidate not provided in the nominating document may be attached to the nomination. The nomination and its accompanying material for the 2006 award must be postmarked no later than July 1, 2005. Address nominating

material to: Dr. Thomas J. Pacansky, 281 Valley Drive, Watchung, NJ 07069.

Dr. Thomas J. Pacansky  
281 Valley Drive  
Watchung, NJ 07069  
Phone (908) 753-0175  
Mobile (908) 672-3420  
Email T.Pacansky@worldnet.att.net

## Others

### ASSOCIATION OF CONSULTING CHEMISTS & CHEMICAL ENGINEERS, INC.

#### Forensic Consulting — Practice and Pitfalls

*Speaker:* James F. Korczak  
Summit Professional Resources, LLC

The forensic consultant is called upon to serve a very important role in the litigation process. This evening we will discuss how an individual can get involved in the process. How the expert interacts with the client, what expectations, and limitations there are, and how to avoid some of the common problems. Some examples of issues that experts will face at some time in their practice will be discussed.

James F. Korczak is President of Summit Professional Resources, LLC, a consulting firm founded in 1999 in Hackettstown, New Jersey. Summit is involved in litigation support in matters involving all manner of products and processes. A staff of over 60 independent expert witnesses in varying fields provides analyses and testimony for attorneys representing both plaintiff and defendants. Technical investigation and evidence documentation services are also encompassed. Prior to forming Summit, Mr. Korczak was a member of a forensic consulting firm for 11 years, serving as a Staff Engineer, Managing Engineer and President. Mr. Korczak has a BS in Industrial Management and an MS in Engineering Management from NJIT in Newark, New Jersey.

**Date: Tuesday, March 22, 2005.**

Times: Networking 6:00 PM  
Dinner 6:30 PM  
Presentation 7:30 PM  
Place: Sheffield's Restaurant  
1050 Route 22 West  
Mountainside, NJ

Registration: \$40 Members, \$50 Non-members

To Reserve: Call Linda B. Townsend at 1-973-729-6671 or e-mail: [accce@chemconsult.org](mailto:accce@chemconsult.org)

Advanced registration is required.

Cancellations must be made 24 hrs in advance or be invoiced.

Please visit our web site for more details: [www.chemconsult.org](http://www.chemconsult.org).



### NEW JERSEY INSTITUTE OF TECHNOLOGY DEPARTMENT OF CHEMISTRY & ENVIRONMENTAL SCIENCE

#### Seminar Series - Spring 2005

##### March 23

11:30 AM-Tiernan 373  
"Variable Source Pollution: A New Water Quality Paradigm"  
Dr. Todd Water  
Cornell University and  
Dr. Zeyuan Qiu  
New Jersey Institute of Technology

##### March 29

11:30 AM-Tiernan 373  
"Flexible Docking in Enzyme Active Sites"  
Dr. Shashidhar Rao  
Schrodinger Inc.

Seminar Series Coordinator: Dr. Sanjay Malhotra 973-596-5583, [malhotra@njit.edu](mailto:malhotra@njit.edu)



### RUTGERS UNIVERSITY, NEWARK — DEPARTMENT OF CHEMISTRY

#### Chemistry Seminar Series - Spring 2005

##### March 4

"Ordered Nanoassemblies for Energy Conversion"  
Prashant Kamat  
University of Notre Dame  
Notre Dame, IN

##### March 11

"Small Molecule and Genetically Encoded Reporters of Protein Trafficking, Activity, and Interactions in Live Cells"  
Alice Ting

THE INDICATOR-MARCH 2005

Massachusetts Institute of Technology  
Cambridge, MA

##### March 18

"Using Raman Crystallography to Explore the Chemistry of Drug Resistance"  
Paul Carey  
Case Western Reserve University

##### March 25

"Evolution of a Preparative Process for a New Drug Candidate"  
Sandor Karady  
Merck Research Laboratories  
Rahway, NJ

##### April 1

"Mechanisms of Flavoprotein-Catalyzed Oxidations"  
Paul Fitzpatrick  
Texas A&M University

##### Dates: Fridays, as above

Times: Coffee Social 11:00 AM  
Place: Olson Reading Room, 338  
Times: Seminar 11:30 AM  
Place: Hill Hall, Room 108  
Rutgers University  
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49	U			50	G	A	I	N			52	A	L	I						
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		64	G	I	L		65	O	N	U	S		66	A	R	O	M	A		
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