

# THE **Indicator** ▶

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**Dr. Vijaya L. Korlipara**  
2004 Chair  
ACS New York Section

RECYCLE THIS PAPER

PERIODICALS POSTAGE



NEW YORK UNIVERSITY  
DEPARTMENT OF CHEMISTRY  
SPRING 2004  
COLLOQUIUM SERIES

- January 23**  
Host: Jerschow  
**Dr. Robert Tycko**, National Institutes of Health  
*Molecular Structure of Alzheimer's Beta-Amyloid Fibrils: Insights from Solid State NMR*
- January 26\***  
Host: Canary  
**Professor Eric Kool**, Stanford University  
To Be Announced
- January 30**  
Host: Canary  
**Professor Thomas Meade**, Northwestern University  
*The Chemistry of Biological Molecular Imaging*  
Joint Seminar with the Department of Radiology
- February 6**  
Host: Y. Zhang  
**Professor Robert P. Hausinger**, Michigan State University  
To Be Announced
- February 13**  
Host: Schuster  
**Professor Jerome A. Berson**, Yale University  
*The Illogic of Scientific Research (With Prominent Examples from Chemistry)*
- February 20**  
Host: Arora  
**Dr. Andrea Cochran**, Genentech  
*Understanding  $\beta$ -structure in Peptides and Proteins*
- March 5**  
Host: Schlick  
**Dr. Gary Felsenfeld**, National Institutes of Health  
*Chromatin Boundaries, Chromatin Structure, and the Regulation of Gene Expression*
- March 8\***  
Host: Schelvis  
**Professor Mostafa El-Sayed**, Georgia Institute of Technology  
*Properaties of Material with Nanometer Size of Different Shapes*
- March 12**  
Host: Jordan  
**Professor Brian Coppola**, University of Michigan  
*Progress in Practice: 15 Years of Reform at the University of Michigan*
- March 26**  
Host: Chang  
**Professor Thomas Kodadek**, University of Texas/Southwestern  
*Chemical Tools for Proteomics Research*
- April 2**  
Host: Canary  
**Dr. Paul Reider**, Amgen  
*It's Not Nice to Fool Mother Nature — Synthesis of Pharmaceutically Active Molecules*
- April 30**  
H: Kirshenbaum  
**Professor Samuel H. Gellman**, University of Wisconsin  
*Structure and Function in Beta-Peptide Foldamers*

Colloquia will be held on Fridays at 3:00 p.m. in Room 1003 Silver Center (reception to follow), unless otherwise noted.

\*The January 26 and March 8 Colloquia will be held on Monday mornings TBA.

## THE INDICATOR

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### EDITORIAL DEADLINES

March	January 15, 2004
April	February 13, 2004
May	March 15
June	April 15
September	July 15
October	August 15
November	September 15
December	October 15
January 2005	November 14
February	December 13



### MEETING ANNOUNCEMENTS

If your meeting is held before the 10th of the month, your announcement should appear in the previous month's issue of THE INDICATOR. See the deadlines above.

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

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# January Calendar

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## NEW YORK SECTION

**Thursday, January 8, 2004**

Chemical Marketing & Economics Group

See page 7.

**Friday, January 23, 2004**

High School Topical Group

See page 7.

**Saturday, January 24, 2004**

Section-Wide Conference

See page 6.

**Tuesday, January 27, 2004**

Biochemical Topical Group

See page 8.

## NORTH JERSEY SECTION

**Thursday, January 8, 2004**

Careers in Transition

See page 13.

**Thursday, January 15, 2004**

No. Jersey Executive Committee

See page 13.

**Thursday, January 15, 2004**

North Jersey Chromatography Group

See page 14.

**Thursday, January 15, 2004**

NJ Group of Small Chemical Businesses

See page 15.

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Deadline for items to be included in the  
March 2004 issue  
of *The Indicator* is January 15, 2004.

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## **NEW YORK SECTION CHAIR'S MESSAGE**

My heartfelt greetings to all members of the New York Section of the American Chemical Society on the start of a new and promising year. I am honored to serve as the Chairperson of this distinguished Section for the year 2004. On behalf of all members, I wish to thank Ged Parkin for providing excellent leadership in 2003.

Over the last few years I have come to know the NYACS board members well through board meetings and seminars. The NYACS board is a team of hardworking individuals who are truly committed to serving the Section. My goal is to continue the excellent work that our Section is known for and, with input from you, the membership, lay the foundation for new activities that reflect the changing needs of the chemical society.

Our topical discussion groups include Analytical Chemistry, Biochemistry, Chemical Marketing & Economics, Computers in Chemistry, High School Chemistry Teachers, Inorganic and Organometallic Chemistry, Metrowomen Chemists, Organic Chemistry, Retired Chemists, and Younger Chemists Club. I urge you to take advantage of the many activities that are planned by these groups throughout the year, and to network with your fellow chemists in the region. Any ideas that you may have to introduce a new program or to revitalize an existing program will be welcome. Bookmark the section website (<http://www.NewYorkACS.org>) to get up-to-date information on various activities planned by the topical groups as well as by the subsections. Also, all suggestions for improving or expanding the website are welcome.

The Nichols Medal Symposium will be held on April 16, 2004 at the Crowne Plaza Hotel in White Plains. Year 2004 marks the beginning of the next 100 years of this prestigious award. Professor Allen J. Bard of the University of Texas at Austin is the winner of the 2004 William H. Nichols Medal Award. Jim Canary, the 2004 Chair-Elect, has put together a symposium of distinguished speakers with the help of Professor Bard. The theme of the symposium this year will be "So What's New in Electrochemistry (and Why Should We Care)?" Mark your calendars to attend this stimulating symposium.

All topical groups and committees meet during the annual section-wide conference to plan activities for the upcoming year. This is a good opportunity for all members, particularly new members, to get acquainted with the Section's activities. Plan to attend the section-wide conference on January 24, 2004.

The American Chemical Society is the largest professional organization of individual members, consisting of over 160,000 members from around the world. Yet, the general public is largely unaware of the immense role our profession plays in the day-to-day lives of all individuals and the contributions it makes to the economic, social, and health areas of society. Therefore, in the upcoming year I would like to make public relations an important aspect of the Section's focus, including during our section-wide conference on January 24, 2004.

I encourage members to also contribute to the public relations effort at a personal level by getting involved. If you have a chance please offer to give a chemistry talk or demonstration at your local school during the National Chemistry Week. Perhaps you may want to consider writing a chemistry column for your local newspaper on a topical subject. Whatever your interest or talent, I urge you to take part in actively promoting the role of chemistry in our everyday lives. Reach out to the public and tell them what you do and how your role as a chemist benefits the lives of public directly or indirectly.

Finally, I look forward to seeing you all at the Section meetings throughout the year!

Vijaya L. Korlipara  
2004 Chair, ACS-New York Section

# New York Meetings

*njesper1@optonline.net*

## NEW YORK SECTION'S 2004 SECTION-WIDE CONFERENCE

**Date:** Saturday, January 24, 2004

**Times:** 9:00 AM - 1:15 PM

**Place:** St. John's University, Bent Hall, Rooms 227A and 227B  
8000 Utopia Parkway, Jamaica, New York

**Cost:** Free to all — We hope you can join us!

### PROGRAM

**9:00 AM** **Arrival and Refreshments - Welcome to the ACS, New York Section's 2004 Section-wide Conference and to St. John's University.**

**9:20 AM** **Greetings from the 2004 Chair of the ACS New York Section**

Vijaya L. Korlipara

**9:30 AM** **Award Presentations:**

Service Plaque and Pin to the 2003 NY Section Chair  
New York Section Outstanding Service Award for 2003  
Nichols Foundation Chemistry Teacher Award for 2003  
Salutes to Excellence Awards

Gerard Parkin  
Lesley Davenport  
Josephine Parlagreco  
Donald C. Clarke  
Neil D. Jespersen  
Frank R. Romano  
Yorke E. Rhodes

Appreciation Plaque for ACS 226th National Meeting Leadership  
Organization of NY Section Activities in Support of  
the 226th ACS Meeting  
Organization of Education Workshops

Robert H. Beer  
Jean D. Delfiner and  
Joan A. Laredo Liddell

**10:00 AM** **Report of the 2004 Elections Nominating Committee.**  
(Presentation of Candidates)

James W. Canary

**10:15 AM** **Keynote Address:**

William "Bill" Oliver  
Professor of Chemistry, North Kentucky University and  
Chair, ACS Committee on Public Relations and Communications

**11:15 AM** **Coffee Break.**

**11:30 AM** **ACS, New York Section Committee Planning Sessions for 2004.** Break out into committee groups to share ideas for future activities. All attendees are welcome to join in the discussions of the various committees.

### Committees

**Educational Activities** (Chemical Education, Continuing Education, Graduate Student Posters, High School Olympiad, National Chemistry Week, Nichols Foundation Teacher Award, Project Seed, Public Outreach, Student Affiliate) **Chair: Sr. Mary I. Maier**

**Member Affairs** (Awards, Employment and Professional Relations, NYACS History, Indicator, Membership, Mentoring, Minority Affairs, Outstanding Service Award) **Chair: Evelyn Sarnoff**

**Program Review** (Subsection and Topical Discussion Group Chairs) **Chair: Anne T. O'Brien**

**Public Affairs** (Academe and Industrial Relations, Community Relations and Publicity, Congressional Science Counselors, Environmental Chemistry, Fund Raising, Information Technology, Speakers Bureau) **Chair: Neil D. Jespersen**

**1:00 p.m.** **Reports from the Chairs of the Committee Planning Sessions.**

**1:15 p.m.** **Conclusion of the Meeting.** Join with colleagues for lunch at a local restaurant.

To inquire about the Section-wide Conference, please call the New York Section Office at 516-883-7510 or e-mail Marilyn Jespersen, Office Administrator, at: *njesper1@optonline.net*

**Directions and parking information are on the NY Section website:**  
<http://www.newyorkacs.org>

**Scientists, teachers and students of all levels are invited to participate in this free event.**

## CHEMICAL MARKETING & ECONOMICS GROUP

### 2004 Economic Outlook

**Speaker:** T. Kevin Swift  
Senior Director-Policy,  
Economics & Risk Analysis  
American Chemistry Council  
Washington, DC

**Date:** Thursday, January 8, 2004

**Times:** Cocktails 11:30 AM  
Luncheon 12 noon  
Presentation 1:00 PM

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

**Cost:** \$35 discount price for Members  
who reserve **by Tuesday,  
January 6 (12 noon)**  
\$50 for Guests and Members (at  
door without reservations)

**Reserve:** Please reserve early to be eligible  
for discount price. Call Probe Economics at  
(914) 923-4505, or via E-mail to:  
**cmgroup@yahoo.com.**



## HIGH SCHOOL TEACHERS TOPICAL GROUP

### High Quality Inquiry-based Teaching and Learning Materials

**Speaker:** Dave Vissoe  
CPO Science (formerly  
Cambridge Physics Outlet)

**Date:** Friday, January 23, 2004

**Times:** Social and Dinner 5:45 PM

**Place:** Caffè Pane e Cioccolato  
10 Waverly Place at Mercer Street  
(southwest corner)

New York, NY

**Cost:** You eat, you pay — cash only, no  
credit cards.

**Times:** Meeting 7:15 PM

**Place:** New York University  
Main Building Room 207  
32 Waverly Place (southeast  
corner Washington Square East)  
New York, NY

Security at NYU may require 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. For  
other info: (914) 961-8882.

**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, direct-  
ly across from Astor Place. It is a short, easy  
walk from the garage to the restaurant or  
meeting room.



## PAUL BARKAN — NEW ADDRESS

Paul Barkan, a long time ACS member, pro-  
fessor at Westchester Community College,  
and a past chair of the New York Section,  
has moved to California. So that his many  
NY and NJ friends can get in touch with him,  
*The Indicator* is happy to publish his new  
address:

Paul Barkan  
101 Alma Street  
Unit 802  
Palo Alto, CA 94301  
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**NY-ACS BIOCHEMICAL  
TOPICAL GROUP — JOINT  
MEETING WITH THE NYAS  
BIOCHEMICAL PHARMA-  
COLOGY DISCUSSION GROUP**

**A Minisymposium on Anti-Angiogenic  
Therapeutic Approaches to Treating  
Cancer: The Perspective in 2004**

**Organizers:** Marla Weetall  
PTC Therapeutics  
and  
Kenneth LaMontagne  
Novartis Pharmaceuticals

**Program:**

“The Genetic Basis of the Switch to the  
Angiogenic Phenotype”  
*Judah Folkman*  
Children’s Hospital, Harvard Medical School

“Molecular and Cellular Basis for the  
Antiangiogenic Effects of Low Dose  
Metronomic Chemotherapy”  
*Robert Kerbel*  
Sunnybrook and Women’s College Health  
Sciences Center

“Targeting Post-transcriptional Control  
Processes as a Novel Approach to Inhibit  
Angiogenesis: Small Molecule Inhibitors of  
VEGF Expression”

*Stuart Peltz*  
PTC Therapeutics

“VEGF Trap and Angiopoietins in  
Angiogenesis”

*Gavin Thurston*  
Regeneron Pharmaceuticals

“The Development of Avastin as a Cancer  
Therapeutic”

*Napoleone Ferrara*  
Genentech

**Date: Tuesday, January 27, 2004**

**Time: 1:00 – 5:30 P.M.**

**Place: New York Academy of Sciences  
Main Hall**

2 East 63rd Street (between Fifth  
and Madison Avenues)  
New York, NY

**Phone: 212.838.0230 x 327**

Reservations required. Reserve on-line at  
**[www.nyas.org/calendar](http://www.nyas.org/calendar)**

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## LONG ISLAND SUBSECTION

### Seminars and Activities — Spring 2004

Speakers and Subjects: TBA

#### Analytical Seminar

Thursday, February 5, 2004

#### Organic/Pharmaceutical Seminar

Thursday, March 11, 2004

#### Inorganic/Industrial Seminar

Thursday, April 1, 2004

#### IV Chemistry Challenge

Thursday, April 22, 2004

#### Safety Seminar

Thursday, May 6, 2004

Times: Coffee 5:30 PM  
Seminar 6:00 PM  
Dinner (optional)

For information, contact Luis Vargas (718)  
631-6593 or [lvargas@qcc.cuny.edu](mailto:lvargas@qcc.cuny.edu).

\*\*\*\*\*

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

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Plan now to attend and watch for further information.

**Date: Thursday, May 20, 2004**

**Place:** Hofstra University  
Hempstead, NY

For further questions, contact Dr. Barbara

Hillery at [hilleryb@oldwestbury.edu](mailto:hilleryb@oldwestbury.edu) or  
(516) 876-2738.



### NEW YORK SECTION BOARD OF DIRECTORS MEETINGS FOR 2004

The ACS New York Section's Board of Directors Meetings for 2004 will be held at St. John's University, Jamaica, NY on the following dates:

**February 20**

**March 19**

**June 11**

**September 17 and**

**November 12**

The Board of Directors Meetings are open meetings for all New York Section members. If you would like to attend please notify the New York Section Office at 516-883-7710 or at [njesper1@optonline.net](mailto:njesper1@optonline.net)

Other important New York Section meetings are:

The Section-wide Conference on **January 24, 2004** at St. John's University.

The William H. Nichols Symposium and Award Banquet, on **April 16, 2004** at the Crowne Plaza Hotel, White Plains, NY

Directions and further details are listed on the New York Section website, [www.newyorkacs.org](http://www.newyorkacs.org)

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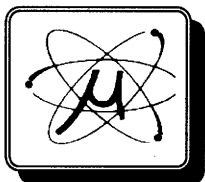
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## **STUDENT AFFILIATE CHAPTER WINS OUTSTANDING CHAPTER AWARD FOR THE THIRD TIME**

The Manhattan College/College of Mount Saint Vincent Student Affiliate Chapter has been awarded an Outstanding Chapter Award from the American Chemical Society for the third time. They will receive their award at the Spring ACS meeting in Anaheim. Two students, Kelly Daggett, chapter president, Alicia Mullaley, chapter vice-president will accompany their advisor, Dr. Pamela Kerrigan, Associate Professor, College of Mount Saint Vincent, to pick up the award.

The chapter was recognized for its community service activities such as presentation of demonstration shows for area middle schools, judging of science fairs, and pet food drive for a local animal shelter. For National Chemistry week they present demonstration shows in the college's non-

science major classes. This year they made paper airplanes with 6th graders at a local middle school. They also attend and present both research and chapter activity posters at National meetings. At the Spring meeting in New Orleans, the chapter participated in the Chem Demo exchange by presenting how to make Alka Seltzer® Rockets and Baggie Science. They also do various fund raising ideas such as 50/50 raffles and selling Krispy Crème® donuts. One of the outstanding ways they communicate chemistry to the college is by their monthly publication called the "Monthly Mole". This is a 4 page newsletter that contains announcements and usually an article written by one of the students regarding everyday chemistry uses – such as the chemistry of chocolate, chemistry of Love, etc.



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# WILLIAM H. NICHOLS 2003 DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET



## Symposium: So What's New in Electrochemistry (and Why Should We Care)?

Award Recipient: Professor Allen J. Bard  
 Hackerman-Welch Regents Chair in Chemistry  
 University of Texas, Austin, Texas

**Date:** Friday, April 16, 2004  
**Times:** Registration 1:00 PM  
 Symposium 1:30 PM – 5:30 PM  
**Place:** Crowne Plaza Hotel  
 White Plains, NY

### PROGRAM

1:30 PM	Welcome	Professor Vijaya L. Korlipara 2004 Chair, ACS, New York Section St. John's University
1:35 PM	Opening of the Distinguished Symposium	Professor James W. Canary 2004 Chair-elect, ACS, New York Section New York University
1:45 PM	Fuel Cells: Why, When, and Where	Professor Paul A. Kohl Georgia Institute of Technology
2:30 PM	Electrochemical Detection and Photonic Reporting in Microfluidic Systems	Professor Richard M. Crooks Texas A&M University
3:15 PM	Coffee Break	
3:45 PM	Electrochemistry in Tight Spaces	Professor Henry S. White University of Utah
4:30 PM	High Resolution Electrochemistry with the Scanning Electrochemical Microscope	Professor Allen J. Bard NICHOLS MEDALIST University of Texas, Austin
6:00 PM	Social Hour	
7:00 PM	William H. Nichols Medal Award Banquet	

Tickets may be reserved using the following form:

### RESERVATION FORM

#### 2004 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET in honor of Professor Allen J. Bard, University of Texas, Austin

Return to: ACS, New York Section, c/o Dr. Neil D. Jespersen, Department of Chemistry,  
 St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439 • (516) 883-7510

Please reserve \_\_\_\_\_ places for symposium & banquet at \$85/person    ACS member  
 \_\_\_\_\_ places for symposium & banquet at \$95/person    Non-member  
 \_\_\_\_\_ places for banquet at \$75/person  
 \_\_\_\_\_ places for symposium at \$30/person, ACS member; \$40 non-member  
 (Student or unemployed at \$10/person)

(For table reservations of 8 or more, use the ACS member \$85/person rate for combination tickets.)

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Indicate number in your group who choose:

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 Salmon \_\_\_\_\_

Mail Tickets to:

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

#### RESERVATION DEADLINE — April 1, 2004

Please make checks payable to: **ACS, NEW YORK SECTION** Check for \$ \_\_\_\_\_ enclosed.

## ANNUAL IRA KUKIN LECTURE

Presented at Yeshiva University on November 12, 2003. Dr. Ronald Breslow, Columbia University, delivered the lecture "The Chemistry-Biology Interface."



Prof. Raji Viswanathan, Chemistry Department, Yeshiva College; Prof. Ronald Breslow, Columbia University; Prof. Lea Blau, Chemistry Department, Stern College.

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## North Jersey Meetings

---

<http://www.njacs.org>

### EXECUTIVE COMMITTEE AND SECTION MEETING

#### Invitation to All ACS Members

The North Jersey Section's Executive Committee meets at 4:15 PM on the day of the monthly Topical Group Meetings, at the same location. All ACS members are welcome to attend.

The Chromatography Group will meet after the Executive Committee.

**Date: Thursday, January 15, 2004**

Times: Executive Committee 4:15 PM

Dinner 6:30 PM

Seminar 7:30 PM

Place: Somerset Marriott

Cost: \$30.00 for Dinner (\$15.00 for Students)

Reservations: Please reserve by **Tuesday, January 13**. Registration is required. To register online, go to [www.njacs.org](http://www.njacs.org), click on Chromatography. Or phone David Kohler, ES Industries (856) 753-8400.

### 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, January 8, 2004**, 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.

QTI



## **NORTH JERSEY CHROMATOGRAPHY GROUP**

### **Optimization Strategies for the Selection of Mobile Phase Solvents in Chiral HPLC**

*Speaker:* William L. Champion  
Rhodia Pharma Solutions

In chiral liquid chromatography, the choice of mobile phase can sometimes be as important as the choice of chiral stationary phase. The mobile phase solvent can change the separation by affecting the interaction of the analyte and the chiral stationary phase. In some cases, changing the solvents in the mobile phase can create results that vary from co-elution of enantiomers to better-than-baseline separation of the enantiomers. On occasion an even more dramatic effect, the reversal of elution order, is obtained. This presents both an opportunity and a challenge when choosing a mobile phase. Examples in this talk demonstrate the use of experimental design and response surface methodology to empirically optimize mobile phase solvent composition in chiral separations.

Bill Champion is a Senior Chemist with Rhodia Pharma Solutions in Malvern, PA. His primary responsibility is development of chiral chromatographic methods for both analytical and preparative scale separations. Before joining Rhodia he was with

Chiral Technologies in Exton, PA and before that he had been with DuPont Merck Pharmaceutical Co. as a senior research scientist. As an analytical chemist in a process development group he found that development of methods for chiral separations were often the most challenging (and interesting) assignments. Bill has a B.S. in Zoology from Louisiana State University and a M.S. in chemistry from University of Houston. He is a member of ACS and a member of the executive committee of the Chromatography Forum of Delaware Valley.

**Date:** Thursday, January 15, 2004

**Times:** Social and registration 5:30 PM  
Dinner 6:30 PM  
Seminar 7:30 PM

**Place:** Somerset Marriott

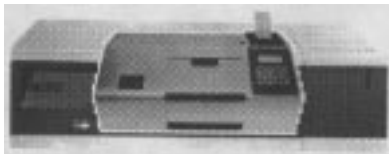
**Cost:** \$30.00 for Dinner (\$15.00 for Students)

Open seating for those not attending the dinner.

**Reservations:** Please reserve by **Tuesday, January 13**. Registration is required. To register online, go to [www.njacs.org](http://www.njacs.org), click on chromatography. Or phone: David Kohler, ES Industries, (856) 753-8400. If you cannot attend, please be responsible and cancel your registration

Thanks to our sponsors: Agilent, Analytical Sales, VWR, Applied Biosystems, Phenomenex, Perkin Elmer, Novatia, Restek, Waters, SGE, and Thermo Electron. We would also like to thank Supelco for assistance with our mailings this year.

## **Rudolph DigiPol-781, the *new* Automatic Polarimeter Small in size, Big on performance**



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## **NEW JERSEY GROUP OF SMALL CHEMICAL BUSINESSES**

### **An OSHA Hazard Communication Primer for the Small Chemical Company**

*Speaker:* Kris Hoffman  
Compliance Assistance Specialist  
US Department of Labor  
Occupational Safety and  
Health Administration

Are you up to speed on OSHA's Hazard Communication Standard requirements for small chemical manufacturers and importers? This presentation will provide you with the basic tools for small business hazard communication compliance.

You will leave this presentation with a greater understanding of:

- Chemicals covered (and not covered) under the hazard communication standard;
- Chemical hazard determination requirements;
- Material safety data sheet requirements;
- Chemical container labeling requirements;
- General requirements for a complete written internal hazard communication program;
- Status of the globally harmonized system for hazard communication.

Attendees will also receive valuable compliance assistance information on where to find free help from OSHA. Take advantage of this session that is part of OSHA's initiative to reach out to small employers to make OSHA compliance easier.

Kris Hoffman has been an Industrial Hygienist with OSHA for fifteen years, holding positions of Field IH [Parsippany Area Office], Regional IH [NYC Regional Office], and Assistant Area Director for Health [Parsippany Area Office]. He currently holds the position of Compliance Assistance Specialist at the Parsippany office.

He is tasked with the development of alliances and partnerships with businesses and labor, as well as with the delivery of outreach and compliance assistance, and with acting as the Team Leader in OSHA's Voluntary Protection Program [VPP].

His experience includes leading comprehensive safety and industrial hygiene field investigations in a vast range of industries from foundries and storage tank cleaning operations to chemical manufacturing plants and hospitals. In addition, Kris served as one of four team leaders tasked with running OSHA's air sampling program for nine months during the World Trade Center rescue and recovery operation.

Kris' education includes an MS, Environmental and Occupational Health Sciences, from Hunter College, CUNY, as well as a BA, Biological Sciences, Rutgers University.

**Date:** January 15, 2004

**Times:** Networking - Cash Bar, Hors  
d'Oeuvres 5:30 PM  
Dinner - Attendee Introductions  
6:30 PM  
Presentation 7:15 PM  
Q&A - Networking - Dessert  
8:00 PM

**Place:** Holiday Inn, North  
Frontage Rd.

*(continued on page 16)*



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## NEW JERSEY GROUP OF SMALL CHEMICAL BUSINESSES

(continued from page 15)

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Reserve electronically at our web site:  
<http://NJChemBus.org>.

Reserve by: **January 12, 2004**. Please  
reserve early.

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

Check payable to, and Mail Payment to:  
NJ Group of Small Chemical Businesses  
P.O. Box 423, Summit, NJ 07902



## CHEMISTRY AS A LIFE SCIENCE SYMPOSIUM XII

The twelfth in this series of biennial  
symposia

### Invited Speakers:

Andrew G. Myers, Harvard University  
"Synthetic and Chemical Biological Studies  
of the Natural Antiproliferative Agent  
Safamycin A; Identification of a Protein  
Target"

Robert M. Williams, Colorado State  
University  
"Total Synthesis of Natural Products of  
Biological Intrigue"

Carolyn R. Bertozzi, University of California  
at Berkeley  
"Chemistry in a Cellular Environment"

David W. C. MacMillan, California Institute  
of Technology  
"Design of New Catalysis Concepts of  
Broad Utility to Chemical Synthesis"

Alois Fürstner, Max-Planck-Institut für  
Kohlenforschung  
"Catalysis Based Total Syntheses of  
Bioactive Natural Products"

Ronald Breslow, Columbia University  
"Bioorganic and Biomimetic Chemistry"

**Date: Friday, March 19, 2004**

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

The symposium is free and open to the

public.

Advanced registration is required. All regis-  
tration must be done electronically by going  
to the web site at: <http://www.njacs.org/calss2004.html>



## YOUNGER CHEMISTS COMMITTEE

### Forensic Sciences Panel Discussion

**Speakers:** Margaret Wallace, Ph.D  
Prof. of Forensic Sciences  
John Jay College of Criminal  
Justice

TBA  
NJ State Police Crime Lab

TBA  
NYC Coroner's Office

Do you enjoy the suspense and intellectual  
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Order and CSI? Are you intrigued by the use  
of cutting-edge science and analytical tech-  
niques in cracking challenging crimes? If so,  
please join us for our next YCC meeting,  
where you will get an insider's perspective  
on this non-traditional career in chemistry.  
Put on your detective's hat and learn just  
how forensic scientists put their strong sci-  
entific backgrounds and quick problem-solv-  
ing skills to use in this exciting, rewarding  
profession. We will feature speakers with  
chemistry and biochemistry background  
who work in forensic sciences.

**Date: Tuesday, March 16th, 2004**

Times: Registration/Social Mixer: 6:00 PM  
Dinner: 6:30 PM  
Panel Discussion: 7:00 PM

Cost: \$18 for professionals,  
\$6 for students

Place: Lenfell Hall, the Mansion  
Fairleigh Dickinson University  
Madison, NJ 07940

Please register by **Friday, March 12th,  
2004**, either on-line at [www.njacs.org/ycc.html](http://www.njacs.org/ycc.html) or via e-mail to [jun\\_liang@merck.com](mailto:jun_liang@merck.com). Please cancel your reserva-  
tion if you will not be able to attend.  
Directions to Lenfell Hall at the Mansion,  
can be found on-line [http://www.fdu.edu/visitorcenter/directions/florham\\_](http://www.fdu.edu/visitorcenter/directions/florham_map.html)  
[map.html](http://www.fdu.edu/visitorcenter/directions/florham_map.html).



## **PUBLICITY COMMITTEE VOLUNTEERS NEEDED**

Do you like to write? Are you a photographer? Do you like to play around with digital photos? Would you like to talk to reporters? Would you like to be on the radio, TV?

If so then we have a "job" for you.

The North Jersey Section is the largest local section in the nation and we are also the most active. We have meetings almost every day of the week from September to June.

We need volunteers who would have some time to spare to help with publicity. If you can't do this, perhaps you have a spouse who has experience or teenager who is active on the school newspaper. For some of the open positions you don't have to be a chemist, just a good writer or reporter. This is going to be important, as we will be doing publicity for MARM 2005.

Training for all of the positions below will be available. We will set up a training meeting for the team and the Assistant Publicity Chair should be available to go to Belmont in May to participate in the ACS Publicity Training.

Here are the positions:

**Assistant Publicity Chair:** Helps to coordinate the work of all the volunteers.

**Photographer:** Must be able to cover one or two meetings a month and photograph the program

**Photo editor:** Must be able to identify people in the photo and edit photos for the Indicator and the Web and also for publication in newspapers.

**Radio and TV:** Meeting announcement writer and contact person.

**Phone contact person:** Must be available during the day to make follow up phone calls to newspapers.

**Writer:** We need someone who can write stories about the human side of chemistry. These must be written so that they are ready to be published in weekly newspapers and magazines.

If you are interested please contact me.

Jeannette Brown  
Publicity Chair  
jebrown@infionline.net  
908-874-6177  
908-239-1515

## **RESULTS OF 2003 FALL BALLOT FOR THE NORTH JERSEY SECTION OF THE ACS**

### **Chair-Elect 2004**

Jacqueline A. Erickson	412
Diane Krone	310


### **Councilors for 2004-2006**

Maureen Chan	444
Susan Fahrenheitz	368
Diane Krone	324
Robert Goodnow	323
Stan Hall	313

### **Alternate Councilors for 2004-2006**

Jeannette Brown	302
Raymond Baylouny	299
Jun Liang	287
Allene Johnson	248
Mark Hayward	215





# **DESERT ANALYTICS**

## **LABORATORY**




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- Metals by AA / ICP
- Ion Chromatography
- Trace Analysis
- Coal/Petroleum

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**ANALYSIS FOR THE CHEMICAL ELEMENTS**

**NORTH JERSEY CELEBRATES NATIONAL CHEMISTRY WEEK AT LIBERTY SCIENCE CENTER**



Left to right, Val Kuck, Anne Kelly, Les McQuire and Sue Fahrenholtz.



A small example of the volunteers and students who participated in the activities.

# Puzzle — Scattering of Electromagnetic Radiation By Colleen M. Parriott

1	2	3	4		5	6	7	8		9	10	11	12	13
14					15					16				
17					18					19				
20				21						22				
			23					24						
25	26	27	28				29				30	31	32	
33					34	35	36			37				
38					39					40				
41					42					43				
44			45					46	47					
		48				49	50							
51	52	53				54				55	56	57	58	
59						60				61				
62						63				64				
65						66				67				

## ACROSS

- X-ray dosages
- Type of exam
- No longer sleeping
- Jai \_\_\_\_\_
- Skin opening
- Radioactive gas
- The Life of Emile* \_\_\_\_ (1937 film)
- Incite
- Egg-shaped
- Ways of graphing light-scattering data
- Interoffice correspondences
- Nerve network
- Nev. neighbor
- Mascara site
- Element to go with *Old Lace*
- Follow the directions
- Tote
- High-flying org.
- Finish feeding the baby
- Pieces of fencing?
- Cover with gold
- China's continent: French
- What Old King Cole could eat
- Willow or Walnut
- Bend light as it changes medium
- Terrified
- Arikara
- Capable

- Like H<sub>2</sub>O, unlike CCl<sub>4</sub>
- Scattering in liquid and gases from pressure waves
- Swelling
- Holly
- Armed forces branch
- Biblical procreate
- Diving bird
- Golf gadgets
- "and two shall be \_\_\_\_"
- Combining form meaning "nine"
- Despise

## DOWN

- Tease
- Morlock's prey
- Hand section
- Thailand
- Intense light scattering by a system with strong local inhomogenities
- R2-D2, for example
- Valor, virtue ...
- \_\_\_\_ Fall In Love (Sinatra song)
- Odors
- Only its phase is changed in elastic scattering
- He was first
- Japanese zither
- Endings for double bonded hydrocarbons
- Before

- Types of solids studied by x-ray scattering
- Pertaining to the lower ear
- Mistreat
- Type feature
- Effect in which scattered light has a frequency twice that of the incident beam plus some vibrational energy
- Region
- Monetary unit of Nigeria
- Small islands, large islets
- Military student
- \_\_\_\_ of gold (it's at the end of the rainbow)
- Ump
- Blow bubbles through
- Coagulates
- Firebug's crime
- Buffalo
- Small armadillo
- Lytic poems
- Child's building block
- Hay unit
- Vow
- Protein metabolite
- As I was going to St. Ives \_\_\_\_ a man ...
- Amex rival

**Solution on page 27.**

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## Call for Nominations

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### **SISTER MARIAN JOSE SMITH EXCELLENCE IN CHEMICAL EDUCATION AWARD**

The North Jersey Section ACS Education Award will be presented at the May 2004 general meeting of the Section, and consists of a plaque and \$1000.00 prize funded by the Hoffmann-La Roche Co. The Sr. Marian José Smith Excellence in Chemical Education Award honors a North Jersey educator from a degree-granting institution who, by intellectual brilliance and care, inspired students to pursue careers in chemistry in which the students themselves conspicuously succeeded.

Nominations, in writing, shall be submitted **by past students only** to: F. Dammont, Awards Committee Chairman, P.O. Box 20453, Newark, NJ 07101, **before February 2, 2004**. For more information call (973) 482-5744.



### **THE 2004 BURTON C. BELDEN DISTINGUISHED SERVICE AWARD**

Nominations are being solicited for the 2004 Burton C. Belden Distinguished Service Award of the North Jersey Section, ACS. The award will be presented in May 2004.

Submit nominations in person or by telephone to F. Dammont, Awards Committee Chairman, P.O. Box 20453, Newark, NJ 07101, (973) 482-5744 **before February 2, 2004**.



### **RECOGNIZING SCIENTISTS BEHIND R&D**

#### **Regional Industrial Innovation Award**

The American Chemical Society invites industrial chemical companies to nominate its scientists for the Regional Industrial Innovation Award.

#### **Why should you nominate?**

- To recognize industrial researchers for their creative and valuable contributions
- To promote the importance of the chemical profession and the support of corporate leadership in advancing science
- To enhance the company's public image by promoting awareness about good science and successful commercialization

#### **How to place a nomination?**

Visit [www.chemistry.org/industry/regionalawards](http://www.chemistry.org/industry/regionalawards) or contact 1-800-227-5558, ext. 4373. Nominations are due by **January 15 2004**.

*The short course  
Fundamentals in  
Analytical Biotechnology  
comes to New Jersey!*

*If you are a research or analytical scientist involved in the analysis or characterization of protein therapeutics, then this short course is for you!*

Three days learning about reversed-phase HPLC, capillary electrophoresis and mass spectrometry as applied to protein therapeutic analysis preceded by a discussion of FDA regulatory issues and analytical requirements.

**When: March 2 - 4, 2004**

**Where: Somerset, New Jersey**

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or check our website for details at  
**[www.bioanalyticaltech.com](http://www.bioanalyticaltech.com)**

(Course also given in  
San Diego, CA on February 17-19  
and near San Francisco CA on Mar 17-19)

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## Others

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### MARM 2005

"Chemistry at the Crossroads of Science," implementing discoveries that benefit life, is the next Middle Atlantic Regional Meeting (MARM 05) of the American Chemical Society at Rutgers University on May 22-25, 2005. The North Jersey Section leaders have accepted the challenge to produce a world class meeting by partnering with ACS Divisions, neighboring sections, and other scientific societies in a way that is beneficial to industrial needs. MARM 2005 will showcase the best of our regions advances in science and technology where chemistry plays an important role in new scientific developments. Afternoon and evening programming will allow scientists to take in significant symposia like "Chemistry as a Life Science" or "Visions in Chemistry." Those who prefer boutique mini meetings with a close intimate atmosphere, like the Middle Atlantic Pharmacology Society (MAPS), will be able to produce their meeting in minia-

ture in conjunction with ours with their own Poster competition and luncheon complimenting their great symposium. Other societies are encouraged to join this venture where we all will benefit from their individual talents and contributions.

One of our major challenges is developing a well-prepared workforce. The science departments at Rutgers, local industry, and our region's colleges will salute the 100th Anniversary of the NJ State Science Teachers on Science Education Day, Sunday, May 22. It will be dedicated to enhance science career awareness with our youth, their teachers, and administrators. Programming will allow attendees to partake in two science disciplines selected from: chemistry, biology, physics, forensic science, pharmacy, geology, engineering, marine science, among others. Hands on experiments will involve individuals as they tour facilities and interact with college students. In each of these blocks, the students will get a chance to discover the significant developments in the last century and the potential in the future. Industry will present

*(continued on page 22)*

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## Education

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# LONG ISLAND UNIVERSITY

## BROOKLYN CAMPUS

### MS PROGRAM IN CHEMISTRY

### SPRING 2004 SCHEDULE OF COURSES

For More Information Please Contact:

Dr. Azzedine Bensalem, Chairman,

(718) 488-1461.

CHE 503	4 Cr.	Advanced Inorganic Chemistry	Sat.	9:00 - 10:50 AM
			Sat.	12:00 - 3:50 PM
CHE 551	3 Cr.	Environmental Chemistry	Thu.	6:10 - 8:50 PM
CHE 604	3 Cr.	Biochemistry	Wed.	6:10 - 8:50 PM
CHE 610	3 Cr.	Advanced Analytical Chemistry	Tues.	6:10 - 8:50 PM
			Thurs.	6:10 - 8:00 PM
CHE 622	3 Cr.	Advanced Organic Chemistry II	Wed.	6:10 - 8:50 PM

## **MARM - 2005**

(continued from page 21)

their major contributions by involving their key scientists in both lecture and poster presentations. Colleges from around the region will have students and faculty present information on their schools and how they will help students prepare for their future careers.

The scientific program will address the opportunities in many areas, especially those key events resulting in productivity enhancements and emerging technology breakthroughs. Teams have been assembled and additional talent is being sought to define programming ideas and recruit cooperative funding from our many ACS divisions, other scientific societies, and funding sources. Facilities at Rutgers allow considerable space for us to produce exciting programs addressing new developments. World-class speakers are being scheduled and complimented by the best of our local talent. Being a regional meeting there will be opportunities for the younger members of the research staff to present their work and participate in a forum that may not have

been allowed if expensive travel and lodging were required.

Innovations and achievements will be a major programming theme for this meeting. You will be introduced to our region's past Heroes of Chemistry and Industrial Innovations award winners while nominations will be sought and presented to new award winners. Our scientists, industries, and academic research leaders have done much to improve life. This event will give all a chance to focus on these achievements and discover the role that our people and institutions played. A media friendly environment is being created so that these achievements can be translated to a format the public can understand and appreciate.

To learn more, visit [www.marmacs.org](http://www.marmacs.org) and register to receive updates on topics that interest you. Of course, you will also be able to volunteer for a role in producing the meeting.

Bill Suits, Co-Chair MARM 05  
[billherits@earthlink.net](mailto:billherits@earthlink.net)  
(908) 234-9240  
[www.njacs.org](http://www.njacs.org)  
[www.marmacs.org](http://www.marmacs.org)

---

## **Education**

**You are invited to a Distinguished Lecture Series honoring  
Professor Herbert Morawetz**  
funded by his former students at the Polytechnic University

**March 12, 2004**

**David Tirrell** – California Institute of Technology, *Novel  
Macromolecules via Alternative Translations of the Genetic Code*

**April 15, 2004**

**Daniel Koshland** – University of California, Berkeley,  
*How Bacteria Find Their Way.*

Othmer Department of Chemical and Biological  
Sciences and Engineering and  
the Herman F. Mark Polymer Research Institute,  
Polytechnic University, 6 Metrotech Center, Brooklyn, NY 11201  
Further information call 718 260-3834 or email: [jmijovic@poly.edu](mailto:jmijovic@poly.edu)  
Refreshments 10:30 AM, Lecture at 11:00

## **NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMICAL ENGINEERING**

### **Seminar Series — Spring 2004**

*Sponsors:* Bradley Pharmaceuticals Inc., ConocoPhillips Bayway Refinery, Exxon Mobil Corporation, Formosa Plastics Corporation, USA, Infineum USA L.P., Merck & Co., Inc., National Starch and Chemical Foundation, Inc., Phillips 66 Company

#### **January 26**

“AIChE: Facing the Challenges of a Professional Society”

*Professor Dianne Dorland*  
Dean, College of Engineering  
Rowan University, Glassboro, NJ and  
current President of AIChE

#### **February 9**

“Synthesis and Processing of Engineered Particulates with Tailored Properties”

*Professor Rajesh Dave*  
Dept. Mechanical Engineering  
NJIT, Newark, NJ

#### **February 16**

“Materials for the Hydrogen Economy”

*Dr. Robert Farrauto*  
Research Fellow  
Engelhard Corp., Iselin, NJ

#### **March 1 — Room 3740**

“Equation-Free Computation for Complex Systems: Enabling Microscopic Simulators to Perform Systems-Level Tasks”

*Professor Yannis Kevrekidis*  
Dept. Chemical Engineering  
Princeton University, Princeton, NJ

#### **March 8**

“The Science of Crystallization in Process Chemistry”

*Dr. Ambarish Singh*  
Associate Director, Process R&D  
Bristol-Myers Squibb Co.  
New Brunswick, NJ

#### **March 29**

“Evolution of Markets Facing R&D at Dow”

*Mr. Brian Maurer*  
Sr. R&D Director and Bound Brook Site  
Director  
Dow Chemical Co., Piscataway, NJ

#### **April 5**

“Chemical and Physical Enhancement of Drug Delivery to the Skin”

*Professor Bozena Michniak*  
Dept. of Pharmacology and Physiology  
University of Medicine & Dentistry of NJ,  
Newark, NJ

#### **May 3**

“Injectable Drug Delivery Based on Polymer Solutions: Experiments and Modeling”

*Professor Anthony McHugh*  
Chair, Dept. Chemical Engineering  
Lehigh University, Bethlehem, PA

Times: Refreshments – 2:30 PM  
Seminars – 2:45 PM

Place: Room 3710  
(Room 3740 on March 1)  
William S. Guttenberg Information  
Technologies Center

Seminar Series Coordinator: Professor  
Gordon Lewandowski, (973) 596-3573,  
[lewandow@adm.njit.edu](mailto:lewandow@adm.njit.edu)

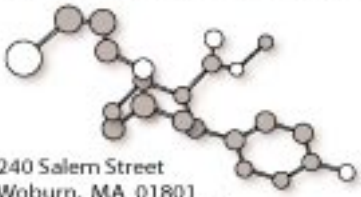


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[www.organixinc.com](http://www.organixinc.com)

**NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMISTRY & ENVIRONMENTAL SCIENCE**

**Seminar Series — Spring 2004**

Place: Tiernan Hall, Room 373  
NJIT, Newark, NJ

Sponsored by: Purdue Pharma L.P.  
Cranbury, NJ

**Wed., Feb. 4, 2004 — 1:00 PM**

Queer Eye for the Straight Chemist: Role of Molecular Modeling in Drug Recovery

*Dr. Kiyean Nam*

Sr. Research Chemist

Merck & Co., Inc., Rahway, NJ

**Tues., Feb. 10, 2004 — 11:30 AM**

Topic TBA

*Dr. Manish Chhowalla*

Dept. of Ceramics & Materials Engineering  
Rutgers University, Piscataway, NJ

**Wed., Feb. 18, 2004 — 1:00 PM**

The Effects of Phragmites Invasion on Tidal Saltmarshes

*Dr. Judith Weis*

Biology Department

Rutgers University, Newark, NJ

**Tues., Feb. 24, 2004 — 11:30 AM**

Tropane-Based Dopamine Uptake

Inhibitors: Why are Some Cocaine-like and Some Not?

*Dr. Amy Newman*

National Institute of Drug Abuse

Bethesda, MD

**Wed., Mar. 3, 2004 — 1:00 PM**

The Dopamine Transporter: Target for Cocaine and Pharmacotherapy

*Dr. Maarten Reith*

Dept. of Psychiatry

NYU School of Medicine, NYC, NY

**Wed., Mar. 10, 2004 — 1:00 PM**

Strategies and Technologies in Modern Drug Discovery: Impact and Challenges of Integrated High-throughput Approaches

*Dr. Charles Manly*

V.P., Discovery Technologies

Neurogen Corporation

**Wed., Mar. 24, 2004 — 1:00 PM**

A 3D QSAR Model of HERG Potassium Channel Inhibitors

*Dr. Robert Pearlstein*

Aventis Corporation

**Wed., April 21, 2004 — 1:00 PM**

Unravelling Protein-DNA Recognition

Mechanisms: A Combined Structural, Dynamic, Protein Engineering & Thermodynamic Approach

*Dr. Babis Kalodimos*

Chemistry Dept. Rutgers University,  
Newark, NJ

**Tues., April 27, 2004 — 11:30 AM**

Trials and Tribulations of Implementing an Environmental Management System to Meet Company Environmental Policy And Compliance as well as Achieve Objectives

*Dr. Sunil Hangal*

RTP Environmental Associates,  
Greenbrook, NJ

**Seminar Series Coordinators:**

Dr. Carol Venanzi

venanzi@njit.edu

973-596-3596

Dr. Sanjay Malhotra

malhotra@njit.edu

973-596-5583



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**ACS Webcast Short Courses 2004 Schedule**

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**Effective Technical Writing**

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October 18 – November 15, 2004

**Infrared Spectral Interpretation, 1**

2004 Dates To Be Announced

Part 2 will also debut in 2004

**Interpretation of Mass Spectra**

April 15 – June 3, 2004

September 14 – October 28, 2004

**Leadership Principles for R&D Managers and Scientists 2004**

Dates To Be Announced

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## ACS SCHOLARS PROGRAM

The American Chemical Society Scholars Program is now accepting applications for the 2004–2005 academic year. This program, targeted at minority groups considered to be under-represented in the sciences, is for students majoring in and planning careers in the chemical sciences. Graduating high school seniors, college freshmen, sophomores and juniors are eligible to apply as well as students in two-year chemical technology programs. For more information, contact the American Chemical Society Scholars Program at 1155 16th Street, NW, Washington, DC 20036. Call toll-free 1-800-227-5558, extension 6250 by e-mail at [scholars@acs.org](mailto:scholars@acs.org), or on our web site <http://chemistry.org/scholars>. The deadline is **February 15, 2004**.



## ACS PRO-SPECTIVES CONFERENCE SERIES

### What Is ACS ProSpectives?

ACS ProSpectives is a series of small conferences for industry-employed chemists and life scientists that deliver the most current and comprehensive technical information available. By inviting only the world's most respected researchers to present, and by electing to run small conferences, ACS ProSpectives intends to become the world's leading conference provider for industry scientists.

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- physics
- engineering

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In terms of content, industry scientists expect program organizers to focus on topics holding the greatest potential for commercial application. The best source of new information is through extended presenta-

(continued on page 26)

## ACS PRO-SPECTIVES CONFERENCE SERIES

(continued from page 25)

tions made by the world's foremost scientific researchers. We will not run any conference unless we can secure an unsurpassed list of leading research scientists to speak.

### Optimal Conference Environment — Easy to Meet and Converse with Others

Industry scientists prefer *smaller conferences* that foster the process of meeting and conversing with other participants. Consequently, ACS ProSpectives conferences will limit participation to 200 or fewer.

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Organic Thin Film Electronics: Materials,  
Devices, and Application

January 25-28, 2004

Miami, FL

Polymorphism in Crystals

February 8-11, 2004

Tampa, FL

Process Chemistry in the Pharmaceutical  
Industry

February 29 - March 3, 2004

Tampa, FL

Pharmaceutical Authentication and  
Forensic Analysis

April 25-27, 2004

Tampa, FL

Rendering Biological Knowledge from  
Proteomics and Genomics

May 2-5, 2004

Location to Be Determined

Emerging Opportunities in Chemical  
Biosensing

May 16-19, 2004

Santa Fe, NM

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

### Experiences Running a Contract Research Laboratory

*Speaker:* Peter Wachtel, Ph.D.

Princeton Polymer Laboratories

Peter Wachtel will talk about how to obtain consulting work that combines the capabilities of the lab with the expertise of the people associated with it.

Princeton Polymer Laboratories is a world renowned chemical technology company specializing in consulting services, contract research, strategic planning and technology transfer.

Our areas of expertise include high performance plastics such as liquid crystal polymers (we are the co-developers of "Xydar"), degradation and stabilization of plastics, compounding and polyblends, hydrogels, medical applications of polymers, membrane technology, polyurethane chemistry and technology, and biopolymers. We also serve as expert witnesses in legal cases, and carry out such laboratory work as is necessary to support our clients' positions.

In the 30 years of our corporate existence, we obtained over 84 patents for our clients as well as for ourselves. Many of our proprietary patents and technologies have been sold or licensed; several others are currently available.

Peter Wachtel has degrees in Chemistry as well as Business Administration and uses both to secure clients and promote the business.

**Date:** Tuesday, January 27, 2004

**Times:** Registration 6:00 PM

Dinner 6:30 PM

Presentation 7:30 PM

**Place:** Sheffield's Catering House

1050 Route 22 West

Mountainside, NJ

**Cost:** Registration \$35 Members/Guests  
\$45 Visitors

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

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Contact the Editor at:  
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We are a group of interdisciplinary scientists who have retired from Industry and are now giving something back. Look us up at:  
**www.depts.drew.edu/rise**

Then come see us. Please call Dr. Ashley Carter at (973) 408-3687

## Puzzle Solution

1	2	3	4		5	6	7	8		9	10	11	12	13
R	E	P	S		O	R	A	L		A	W	A	K	E
14					15					16				
A	L	A	I		P	O	R	E		R	A	D	O	N
17					18					19				
Z	O	L	A		A	B	E	T		O	V	A	T	E
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				23					24					
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33					34	35	36			37				
O	B	E	Y		C	A	R	R	Y		N	A	S	A
38					39					40				
B	U	R	P		E	P	E	E	S		G	I	L	D
41					42					43				
A	S	I	E		N	O	F	A	T		T	R	E	E
44				45					46	47				
R	E	F	R	A	C	T			A	G	H	A	S	T
				48				49	50					
				R	E	E		A	B	L	E			
51	52	53			54					55	56	57	58	
P	O	L	A	R		B	R	I	L	L	O	U	I	N
59					60					61				
E	D	E	M	A		A	S	S	I		A	R	M	Y
62					63					64				
B	E	G	A	T		L	O	O	N		T	E	E	S
65					66					67				
A	S	O	N	E		E	N	N	E		H	A	T	E