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# THE Indicator

CIRCULATION: 11,500

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

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### EDITORIAL DEADLINES

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



## Come Visit

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

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

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# November Calendar

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## NEW YORK SECTION

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Thursday, November 11, 2004

Chemical Marketing & Economics Group  
See page 12.

Thursday, November 18, 2004

Analytical Topical Group  
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Friday, November 19, 2004

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Thursday, December 2, 2004

Long Island Subsection  
See page 13.

## NORTH JERSEY SECTION

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Careers in Transition  
See page 5.

Thursday, November 4, 2004

NJ Group of Small Chemical Businesses  
See page 6.

Monday, November 8, 2004

No. Jersey Teacher Affiliates  
See page 6.

Tuesday, November 9, 2004

No. Jersey NMR Topical Group  
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Friday, November 12, 2004

Chem Essentials  
See page 8.

Tuesday, November 16, 2004

ChemTAG  
See page 8.

Wednesday, November 17, 2004

NoJ Chromatography Group  
See page 8.

Monday, November 22, 2004

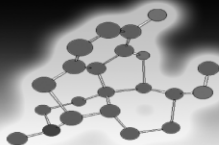
No. Jersey Executive Committee  
See page 5.

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Deadline for items to be included in the January 2005 issue of *The Indicator* is November 14, 2004.

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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, November 22, 2004

**Times:** 5:30 PM

**Place:** Fairleigh Dickinson University  
Rice Lounge, New Academic Bldg.  
Madison, NJ

**Cost:** Dinner \$5.00 (Pizza & Soda)

Reservations: for dinner call (732) 463-7271 or [jppenna@aol.com](mailto:jppenna@aol.com) and state your wish to make reservations for the ACS dinner **before Wednesday, November 17, 2004.**

**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, November 4, 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.



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

### **Crisis Management or What To Do when the Reporters Are Banging on Your Door**

*Speaker:* Andrea Obston  
President  
Andrea Obston Marketing  
Communications, LLC  
Bloomfield, CT

Based on twenty years' experience working with key clients, Ms. Obston demonstrates how to use public relations plans to manage communications to your company and to the world around you during a crisis. She profiles tools and methods to handle typical situations, which are more likely to occur in these days of increased security and safety regulations and issues. The presentation will include specifics of how and when to release information in order to have clear, open communication within the company and with the community.

In an emergency situation, which suddenly disrupts operations, or when dealing with chronic issues that could erupt into emergencies, the right kind of internal exchanges, when linked with a well defined public relations plan that is designed to convey situation parameters to the community, civic agencies and the press, can help management handle the situation appropriately.

The goal of crisis management is to protect the public and your employees while securing the future success of your business, whether your truck spills its contents all over the Turnpike at rush hour, your newest product is tampered with before delivery to your key customer, your cash cow product suddenly fails in the primary application, you have labor problems in the plant or the warehouse, or environmental and safety issues are plaguing your operations.

You will leave with a greater understanding of:

- How to recognize a Crisis
- How to implement Crisis Management – Crisis Public Relations
- What good Crisis Public Relations can help you do
- How to do Crisis Public Relations right

Andrea Obston founded her marketing communications firm in 1982. Since then, the firm has handled local and national accounts that range from a law firm to an astronaut. Among the firm's current clients are: Affinity

Healthcare Management, Inc., Children's Therapy Center, Filomeno & Company, P.C., Gassman & Golodny, Financial Planners, Integrated Loan Services, Kaestle Boos Associates, Inc., New England Technical Institute, Robert Wood Johnson Foundation.

Ms. Obston was named as the 1998 Small Business Leader of the Year by the Greater Hartford Chamber of Commerce. She received her MBA from the University of Connecticut, and her BS in public relations from Boston University. Her business has been honored with an Emmy as well as awards from the Public Relations Society of America, International Association of Business Communicators, The Communicator's Awards, the Advertising Club of Connecticut, The International Film and TV Festival of New York, The Life Communicators Association and the U.S. Industrial Film Festival.

**Date: Thursday, November 4, 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.  
Newark, NJ  
On north side of Newark Airport

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

Reserve by: **November 1, 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.



## **TEACHER AFFILIATES**

### **Executive Committee Meeting**

**Date: Monday, November 8, 2004**

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.

## NMR TOPICAL GROUP

### Metabolic Profiling: Principles and Practice

**Speaker:** Dr. John P. Shockcor  
Bruker BioSpin/Bruker Daltonics  
Fortune Drive  
Billerica, MA

From the post genomics and proteomics era, metabolic profiling has emerged as a vital new area of research. Metabolic profiles of biological fluids contain a vast array of endogenous low-molecular weight metabolites, the composition of which depends upon the sample type (plasma urine, bile etc) and factors such as the species, age, sex, diet of the organism from which the sample derives and indeed even the time of day at which the sample was taken. Disease, drugs (and other biologically active molecules) perturb concentrations and fluxes in intermediary metabolic pathways. The response to this perturbation involves adjustment of intracellular and extracellular environments in order to maintain homeostasis. Both the perturbations and the adjustments are expressed as changes in the normal composition of the biofluids or tissues that are characteristic of the nature or site of the disease process, toxic insult, pharmacological response or genetic modification. Analytical techniques, in particular, MS and/or NMR, provide spectral patterns that can be evaluated using statistical methods, such as principal component analysis (PCA), to highlight both subtle and gross systematic differences between samples. Evaluation of these observed biochemical changes over time can provide critical information on the mechanism of the perturbation. In this talk we will provide data to illustrate these concepts and demonstrate the application of both NMR and LC/MS to metabolic profiling studies.

Dr. Shockcor is currently the Business Development Manager for Metabolic Profiling at Bruker BioSpin/Daltonics in Billerica, Massachusetts, where he continues to perform pioneering research in NMR and MS tools for metabolism and metabolomic studies. He was formerly Director of Physical and Analytical Sciences at Metabometrix Ltd. in London. Dr. Shockcor received his B.S. in Chemistry from

Cleveland State University in 1983 and his Ph.D. in Biophysical Chemistry from University of London, Imperial College. Dr. Shockcor has authored sixty-four original research papers on various aspects of NMR, mass spectrometry and metabolomics, and their applications in the pharmaceutical industry. He is a Fellow of the Royal Society of Chemistry (U.K.), a Member of the International Society for the Study of Xenobiotics (ISSX), and a founding member of the "Consortium for Metabonomic Toxicology" (COMET).

**Date:** Tuesday, November 9, 2004

**Times:** Beverages 5:45 PM

**Place:** Woodbridge Hilton in the Lounge

**Times:** Dinner 6:30 PM

Seminar 7:00 PM

**Cost:** \$10 for students and post-docs  
All others \$30.

**Registration:** On our Website <http://njacs.org/nmr.html> or e-mail Dr. Thomas Schuster ([tschuste@optonline.net](mailto:tschuste@optonline.net)) or Dr. Gerald Stockton ([gstockton@comcast.net](mailto:gstockton@comcast.net)).

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**Date:** Friday, November 12, 2004

**Time:** 4:00 - 8:00 PM

**Place:** Somerville High School  
222 Davenport Street  
Somerville, NJ

**Cost:** Per session \$15.00 for members  
\$30.00 for non-members (price includes 1 year membership).  
Cost includes handouts and a box supper.

Contact: Patti Duncan at [pduncan@hpregonal.org](mailto:pduncan@hpregonal.org) or go to <http://www.njacs.org/teacher.html> for more details and a registration form.

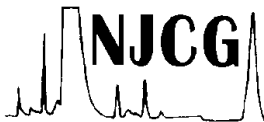
## ChemTAG MEETING

**Date:** Tuesday, November 16, 2004

**Time:** 4:00 PM

**Place:** Lodi High School  
99 Putnam Street  
Lodi, NJ

Contact: Fran Rozman at [francium@optonline.net](mailto:francium@optonline.net)



## NORTH JERSEY CHROMATOGRAPHY GROUP

### NJCG Award for Excellence in Chromatography Presentation

Congratulations to **Dr. Christopher Welch**, recipient of the 2004 NJCG Award for Excellence in Chromatography.

#### Award Presentation:

#### The Role of Chiral Chromatography in Modern Pharmaceutical Process Research

*Speaker:* Dr. Chris Welch  
Merck & Co.

In recent years chiral chromatography has become an invaluable tool for conducting modern pharmaceutical process research. Long the preferred analytical technique for measuring enantiopurity, chiral chromatography is increasingly being used as a preparative tool to provide rapid access to enantiopure drug candidates on kilogram or even larger scale. An overview of the current state of the art will be presented, focusing on both analytical and preparative aspects of the use of chiral chromatography in modern pharmaceutical process research. Examples illustrating important issues and emerging strategies for the appropriate partnering of preparative chromatography with organic synthesis will be presented.

Dr. Welch's research accomplishments



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**ANALYSIS FOR THE CHEMICAL ELEMENTS**



include invention of a number of useful reagents for improved immunodiagnostic assays (while at Abbott Laboratories) and the invention and commercialization of several useful chromatographic stationary phases, such as Whelk-O, one of the most popular chiral HPLC columns (while at the University of Illinois and Regis Technologies). In addition, he developed a number of techniques relating to the chromatographic separation of enantiomers, including the target directed design of chiral stationary phases (CSPs), the immobilized guest approach to CSP design, multiparallel microscale synthesis and evaluation of CSPs, MS evaluation of CSPs using the pseudoenantiomer approach, imprintable brush type CSPs and specialized stationary phases for fullerene purifications. He has developed or co-developed (with W.H. Pirkle) a number of mechanistic principles, including fundamental work on the role of superfluous adsorption, solvation, temperature and face to edge aromatic interactions in the chromatographic separation of enantiomers. Dr. Welch has authored more than 80 publications and 20 patents, is a co-founder of the journal, *Enantiomer*, a member of the editorial board of the journal, *Chirality* and a member of the JPL/NASA Chimera project team, which is investigating possible approaches to the search for extraterrestrial enantioenrichment on Saturn's moon, Titan.

**Date: Wednesday, November 17, 2004**

Times: Social and registration 5:30 PM  
Seminar 7:30 PM  
Dinner 8:30 PM

Place: Somerset Marriott

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

Open seating for those not attending the dinner.

Reservations: Please reserve by **Monday November 15, 2004**. 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.

\*\*\*\*\*

The following talks will be presented on **Thursday, November 18, 2004** at **The Eastern Analytical Symposium**:

"Employment of LC/MS in Leveraging Analytical Problems"

*Nona Khaselev*, BMS

"Applications of LC-MS-SPE-BMR Technology in Pharmaceutical Trace Analysis"

*Feng Xu*, BMS

"Trace Impurity Structure Determination: Isolation vs LC/NMR/MS and Points in Between"

*Uwe Neue*, Waters

"Very High Pressure HPLC Combined with Mass Spectrometry - Improvements in Speed and Resolution"

or

"Investigating LC Column Bleed Factors in LC/MS Methodologies"

*Tivadar Farcas* or *Michael McGinley*, Phenomenex



## TEACHER AFFILIATES

### 2004-2005 Crystal Growing Contest

Attention Chemistry Teachers

Can you grow the largest single crystal?!

The North Jersey Section is sponsoring a contest guaranteed to stimulate student interest in science while teaching concepts of saturation, supersaturation, and crystal structure. This hands-on activity will allow students to grow their own "gem". Watch them take ownership of their crystal and nurture it as it grows. Your students will be amazed at how fast their crystal grows

into its natural shape. Take your students beyond the classroom by participating in the fun, low-cost Crystal Growing Contest.

Two winners will receive \$75 Flinn Scientific, Inc. gift certificates.

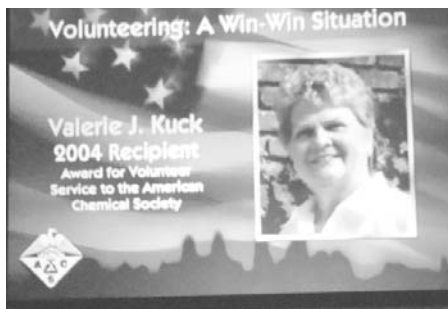
Contest guidelines and an entry form can be downloaded from <http://www.njacs.org/teacher.html>

**SCENES FROM THE 228th ACS NATIONAL MEETING IN PHILADELPHIA, AUGUST 22-26, 2004**



**North Jersey Members enjoying evening at Chemluminary Award Ceremony.**

**Maureen Chan receiving the Shirley B. Radding Award from the Santa Clara Section. Peter Rusch from the Santa Clara Section is presenting the award. It was for "Continuing Contributions to the Support of the American Chemical Society."**



**Val Kuck wins award for "volunteering."**

**Alan Cooper, George Heinze, Richard Carney and Anne Kelly at Poster Event.**



## **MARM 2005**

**Date: May 22-25 2005**

**Place: Rutgers University  
New Brunswick**

### **CHEMISTRY AT THE CROSSROADS OF SCIENCE.**

The Waksman Museum in Martin Hall of Cook College of Rutgers to be the site of the National Chemical Landmark saluting the process used for the Discovery of Actinomycete Antibiotics that cured Tuberculosis and many other diseases.

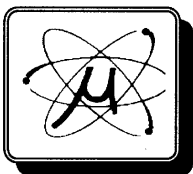
"If one had to answer the question which group of microorganisms has been the most useful to medicine and agriculture, the loud and clear answer would be "the actinomycetes." We have come to expect great things from these intriguing filamentous bacteria ever since the great soil microbiologist Selman Waksman revealed their majesty ...." (Arnold L. Demain, 1988).

The Actinomycetes enriched the world through their antibiotics, antitumor, immunological suppressant and anthelmintic agents. They have advanced the pharmaceutical industry and upgraded world health. It is an opportune time to showcase the Actinomycetes.

A symposium marking the event is in the planning stage but will involve some high powered speaker to speak about the discovery and it's meaning in the world of chemotherapy. This program will be of interest to biologist, chemists biochemists and medicinal chemists.

This is just a sample of the type of programs to be found at MARM 2005. Other program information is currently on the web [www.marmacs.org](http://www.marmacs.org).

Call for Papers and Registration Opens **November 16, 2004.**



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## New York Meetings

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

### LONG ISLAND SUBSECTION

#### "Field ionization of C<sub>2</sub>H<sub>5</sub>I in Supercritical Ar and Kr"

*Speaker:* Dr. Cherice Evans  
Department of Chemistry and  
Biochemistry  
Queens College

**Date:** Thursday, November 4, 2004

Times: Coffee 5:30 PM  
Seminar 6:00 PM  
Dinner 7:00 PM

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



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

#### Technology Update: Enabling Multi-Generation Energy Sources through Surface and Materials Science

*Speaker:* Dr. Edward T. Wolync  
Group Vice President  
Strategic Technologies &  
Chief Technology Officer  
Engelhard Corp.  
Iselin, NJ

**Date:** Thursday, November 11th, 2004

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

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

Cost: \$35 discount price for Members  
who reserve **by Tuesday,  
November 9th** (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 (via PayPal), go to the CM&E Website: <http://home.nyc.rr.com/chemmarkecon/>

\*\*\*\*\*

#### Future CM&E Program:

**Date:** Tuesday, December 7, 2004

[Note: change in date from 2nd Thursday of the month]

Speaker & Topic: To be announced

**Date:** Thursday, January 13, 2005

Topic: Outlook for the U.S. and World Economies

Speaker: Dr. Duncan H. Meldrum,  
Corporate Economist, Air Products and  
Chemicals, Inc., Allentown, PA

**Date:** Thursday, February 10, 2005

Topic: Outlook for the U.S. and World Petrochemical Industry

Speaker: Andrew Swanson, Vice President,  
Nexant/Chem Systems, Inc., White Plains,  
NY



### ANALYTICAL TOPICAL GROUP

#### Overview of Lab-On-A-Chip Technology

*Speaker:* Doug Postl  
Life Science Product Specialist  
Agilent Technologies

The term Lab-On-A-Chip is actually descriptive of a growing number of different chemical and biological analysis techniques. This presentation will focus on three specific types of Lab-On-A-Chip technologies; microfluidics, microarrays and HPLC-On-A-Chip. We will discuss the underlying chip manufacturing technologies as well as sample preparation, sample introduction and sample analysis protocols for each technique. In addition, we will present data and results from real-world applications for each of these techniques.

**Date:** Thursday, November 18, 2004

Times: Seminar 7:00 PM

Place: The Graduate School and  
University Center  
City University of New York  
365 Fifth Avenue (Room Number  
will be posted in the lobby)  
New York, NY

For further information, call Robert Nolan at (212) 817-8248.

**HUDSON-BERGEN CHEMICAL SOCIETY — JOINT MEETING WITH THE SCHOOL OF NATURAL SCIENCE AND THE WEINER LIBRARY OF FAIRLEIGH DICKINSON UNIVERSITY (TEANECK)**

**Grand Opening in Celebration of National Chemistry Week**

The School of Natural Sciences and the Weiner Library of Fairleigh Dickinson University (Teaneck) and the Hudson Bergen Chemical Society invite you to the opening of the exhibition

**THE ART OF SCIENCE: PORTRAITS OF MOLECULES**

The exhibition presents artwork based on molecular structures. The images are from the Protein Data Bank, an international repository containing tri-dimensional structural data for different macromolecules of biological importance. These data originate from X-ray crystallography and NMR experiments and are deposited therein by scientists from over the world. Images from the submicroscopic world of biological chemistry have been taken from their virtual kingdom, magnified thousands of times and colorized using computer software. The exhibits demonstrate, once again, that there is beauty and order at the molecular level and that science is accessible. The exhibition will be open through December 19, 2004.

**Date:** Friday November 19, 2004  
**Time:** 5:00 PM.  
**Place:** The Weiner Library (first floor)  
Fairleigh Dickinson University  
1000 River Road  
Teaneck, NJ  
**Cost:** Free.  
Refreshments will be available.

Information: Dr. Mihaela Leonida (201)692-2338, e-mail: [mleonida@fdu.edu](mailto:mleonida@fdu.edu)



**LONG ISLAND SUBSECTION**

**“Field ionization of C<sub>2</sub>H<sub>5</sub>I in Supercritical Ar and Kr”**

**Speaker:** Dr. Cherice Evans  
Department of Chemistry and  
Biochemistry  
Queens College

**Date:** Thursday, November 4, 2004

\* \* \* \* \*

**“The History of Taxol”**

**Speaker:** Dr. William F. Berkowitz  
Emeritus Professor of Chemistry  
Queens College  
City University of New York

**Date:** Thursday, December 2, 2004

**Times:** Coffee 5:30 PM  
Seminar 6:00 PM  
Dinner 7:00 PM

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

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**SCENES FROM THE 228th ACS NATIONAL MEETING IN PHILADELPHIA, AUGUST 22-26, 2004**



**Joan Laredo-Liddell, H.S. Topical Group co-chair, accepting the award for Outstanding High School Student Program, congratulated by Past National President Elsa Reichmanis and Joseph Heppert, Chair, SOCED.**

**Winning Middle Atlantic Contest Presidential Event (H.S. Poster & Essay Contest) "Transplantation/Environment," submitted by Stuyvesant High School.**



**Accepting award is a student from Stuyvesant H.S., flanked by ACS President Dr. Charles Casey and moderator, Christopher Smith.**

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## Call for Nominations

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### 2005 BAEKELAND AWARD

The North Jersey Section of the American Chemical Society is soliciting nominations for the 2005

Leo Hendrik Baekeland Award. The award is sponsored

by Union Carbide Corporation and consists of a gold medal and a \$5,000 honorarium. The Section presents the award biannually to commemorate the technical and industrial achievements of Leo Hendrik Baekeland and to encourage younger chemists to emulate his example. The Award is given in recognition of accomplishments in pure or industrial chemistry to an American chemist who will be under the age of 40 as of January 1, 2005.

Nominations for the Award should include a letter describing the nominee's achievements, a brief biography, and a list of the nominee's more important publications. Renominations are encouraged, provided the age requirement is still met. Please submit materials **by December 31, 2004**, to Robert Goodnow, Jr., Baekeland Award Committee, of Hoffmann-La Roche Inc., Bldg. 123, 340 Kingsland Street, Nutley, NJ 07710-1199.



### NORTH JERSEY SECTION LIFETIME ACHIEVEMENT AWARD

The biennial Award, consisting of a plaque and \$1,000 prize, funded by the Novartis Pharmaceutical Company, honors an industrial researcher, chemist, or chemical engineer, fifty years old or older, resident or working for a minimum of fifteen years within the geographical borders of the Section, for his/her brilliance and intellectual leadership qualities, generously shared with others and not yet recognized by any major sci-

entific award, to ensure that the achievements are fully recognized as contributing factors of progress, for the benefit of all.

The Award will be presented at the general meeting of the Section in May 2005.

Submit nominations and seconding letters, **before February 2, 2005**, to F. Dammont, P.O. Box 20453, Newark, NJ 07101. For more information, please call (973) 482-5744.



### WESTCHESTER CHEMICAL SOCIETY

#### Distinguished Scientist Award - 2005

The Westchester Chemical Society is seeking nominations for its Distinguished Scientist Award - 2005. Any scientist who lives or works in Westchester is eligible for this award.

Please submit a detailed resume **by January 31, 2005** to Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701-5239.

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## Others

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

Seminar Series - Fall 2004

**November 2, 2004**

"Evaluating the Biodegradation of Petroleum Hydrocarbons and Polycyclic Aromatic Hydrocarbons in the Rhizosphere of *Spartina Patens*"

*Robert Lippincott*, PhD Candidate, Evsc.  
Dept. of Chemistry & Evsc, NJIT

**November 10, 2004**

"Organic and Biochemical Functionalization of Semiconductor Surfaces"

*Dr. John N. Russell, Jr.*  
Naval Research Laboratory  
Washington, DC

**November 17, 2004**

"Antibiotic Targeting of Ribosomal RNA: The Energetics and Dynamics of Recognition"

*Dr. Daniel Pilch*  
UMDNJ - Robert Wood Johnson  
Medical School, NJ

**November 23, 2004**

*Dr. Kevin Brogley*  
Purdue Pharma, L.P.  
Cranbury, NJ

**November 30, 2004**

"Syntheses, Characterizations and Applications of Nanostructural Systems"

*Dr. Daniel Akins*  
City College, CUNY, New York

Time: 11:30 AM

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

### Seminar Series Coordinators:

Dr. Carol Venanzi  
[venanzi@njit.edu](mailto:venanzi@njit.edu)  
973-596-3596

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



### BROOKLYN COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

Chemistry Department Colloquium - Fall 2004

**Wednesday, Nov. 3**

12:30 PM — Room 148NE

**Twentieth H. Martin Friedman Lecture**

**"Paradigms Lost and Paradigms Found? Science Revolutionary and Science Pathological — How to Determine Which is Which"**

*Dr. Nicholas J. Turro*  
William P. Schweitzer  
Professor of Chemistry  
Columbia University

**Friday, Nov. 5**

"Carbene Fragmentation as an Entry to Classic Cations of Organic Chemistry"

*Prof. Robert A. Moss*  
Department of Chemistry and Chemical  
Biology, Rutgers University

**Friday, Nov. 12**

"Lanthanide Complexes for Luminescence Application"

*Prof. Ana de Bettencourt-Dias*  
Department of Chemistry  
Syracuse University

**Friday, Nov. 19**

"Recent Advances in the Thermal Chemistry of Simple Hydrocarbons"

*Prof. John E. Baldwin*  
Department of Chemistry



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Center for Science and Technology  
Syracuse University

**Friday, Dec. 3**

“Origin of the Sphere-to-Rod Transition in Micellar Solutions: Specific Ion Hydration Matters”

*Prof. Larry Romsted*

Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey

Times: Colloquium 2:30 PM  
Social Hour 3:30 PM

Place: Brooklyn College  
Room 432 Ingersoll Extension\*  
(except November 3)  
2900 Bedford Avenue  
Brooklyn, NY



**THE RESEARCH &  
DEVELOPMENT COUNCIL OF  
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2004 THOMAS ALVA EDISON  
PATENT AWARD WINNERS**

**Emerging Technology**

Celgene Corporation (Warren, NJ) for “Method of Reducing TNFa Levels with Amino Substituted 2-(2,6-Dioxopiperidin-3-yl)-1-Oxo-and 1,3-Dioxoisindolines.” These are thalidomide analog compounds, used in Revlimid®, that are effective in the treatment of prostate cancer, multiple myeloma, and metastatic melanoma and other cancers, without the drug’s well-known adverse effects, including teratogenicity.

Schering-Plough Research Institute (Kenilworth, NJ) for “Piperidine Derivatives Useful as CCR5 Antagonists.” This is the SCH-C compound, which has been shown

to be effective in reducing the HIV viral load in clinical trials by blocking the earliest step in the viral life cycle.

Wyeth (Princeton, NJ) for “Rapamycin Hydroxyesters.” Temsirolimus (CCI-779), a rapamycin derivative, which is effective in the treatment of transplantation rejection, graft vs. host disease, inflammatory diseases, autoimmune disorders, cancer, fungal infections, and hyperproliferative vascular disorders.

**Environmental**

Engelhard Corporation (Iselin, NJ) for “Method for Using a Close-Coupled Catalyst.” This is a catalyst brick used in automobiles that can be placed close to the engine and heat up more quickly, thus improving catalytic performance and reducing pollution-causing emissions.

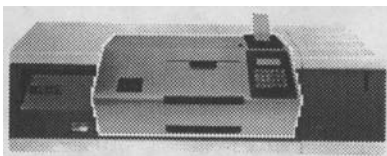
**Industrial**

ExxonMobil Research & Engineering (Annandale, NJ) for “Process for Preparing Short Chain Alkyl Aromatic Compounds.” This is the development of a new, MCM-22-based technology, which is used to manufacture 60% of the world’s cumene supply, which is converted into acetone and phenol for the production of epoxy resins, nylon 6 and polycarbonate plastics, and 20% of the world’s EB supply, which is converted into styrene for the production of polystyrene and other plastics. This new technology is economically advantageous, improves energy efficiency, and dramatically reduces the formation of hazardous waste by-products.

**Consumer**

International Specialty Products (ISP) (Wayne, NJ) for an “Polymeric Composition” that improves physical performance of inkjet receptive coatings, especially those that  
*(continued on page 18)*

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## PATENT AWARD WINNERS

(continued from page 17)

employ PVP. This invention advances water-soluble polymer and inkjet coating technology.

### Medical Health

Merck & Co., Inc. (Rahway, NJ) for "Morpholine and Thiomorpholine Tachykinin Receptor Antagonists." This is an antagonist of the NK1 (neurokinin-1) receptor that relieves the nausea and vomiting often experienced by cancer patients undergoing chemotherapy.

### Consumer/ Small Company

Sabinsa Corporation (Piscataway, NJ) for "Forskolin Composition for Promoting Lean Body Mass and Treating Mood Disorders." This is an extract from the roots of the Coleus forskohlii plant, used to develop ForsLean®, a product which naturally and safely promotes lean body mass and treats mood disorders in overweight individuals to regulate metabolism for long term weight loss.

### University Technology/ Transfer

Princeton University (Princeton, NJ) for "N-(Pyrrolo(2,3-D) Pyrimidin-3-Ylacyl)-Glutamic Acid Derivatives." This is an anti-folate compound (Alimta®) that is the world's first treatment for malignant pleural mesothelioma, cancer in the lining of the lungs.

Rutgers, The NJ State University (New Brunswick, NJ) for "Coherent, Flexible, Coated-Bore Hollow-Fiber Waveguide." This is a hollow glass waveguide (HGW) with a very smooth inner surface for flexible fiber optic delivery of laser power for laser surgery, broadband sensor applications, industrial welding, and other cutting applications.

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

### Seminar Series - Fall 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.*

#### November 1

"Pharmacokinetics in Drug Discovery and Development"

*Dr. Punit Marathe*

Associate Director

Metabolism and Pharmacokinetics

Bristol-Myers Squibb

#### November 22

"Interfacial Forces on a 5 nm

Microemulsion Droplet by Dynamic Neutron Scattering"

*Dr. John Huang*

Senior Member, Technical Staff

Princeton University

Times: Refreshments – 2:30 PM

Place: Room 3710

William S. Guttenberg Information

Technologies Center

New Jersey Institute of Technology

Newark, NJ

Times: Seminars 2:45 PM

Place: Room 3710

William S. Guttenberg Information

Technologies Center [exceptions noted]

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

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### Fall Symposium

*Speakers:* Professor Emeritus  
Harold A. Scheraga  
Cornell University  
Professor Michael H. Hecht  
Princeton University  
Professor Alanna Schepartz  
Yale University

**Date:** Tuesday, November 9, 2004

**Time:** 10:00 AM – 3:00 PM

**Place:** City University of New York  
College of Staten Island  
2800 Victory Blvd.  
Room 1P – 120  
Staten Island, NY 10314

Pre-registration is required. Call (718) 982-4075, e-mail to [brocato@mail.csi.cuny.edu](mailto:brocato@mail.csi.cuny.edu) or consult the Institute website:  
<http://www.chem.csi.cuny.edu/mma/>



## WILLIAM PATERSON UNIVERSITY DEPARTMENT OF CHEMISTRY & PHYSICS

### Fall 2004 Seminar Series

**Thursday November 4, 2004**

“Science and application of  
Nanotechnology”

*Professor Stanislaus Wong*  
Department of Chemistry  
Stony Brook University/SUNY  
Stony Brook, NY

**Thursday November 11, 2004**

“Useful Things to Know About the  
Properties of Room Temperature Ionic  
Liquids”

*Professor Edward Castner*  
Department of Chemistry  
Rutgers University, Piscataway, NJ

**Thursday, November 18, 2004**

“User Friendly Asteroid Hunting and Why  
It’s an Important Endeavor”  
Professor Irving Robbins  
Department of Physics  
College of Staten Island/CUNY

**Date: TBA -contact coordinators**

“Bose-Einstein Condensation”  
Professor Harold Metcalf  
Department of Physics  
Stony Brook University/SUNY  
Stony Brook, NY

<http://www.wpunj.edu/cos/chem-physics/>

*Seminar coordinators:*

Dr. A. Brandolini  
(973) 720-2449  
[BrandoliniA@wpunj.edu](mailto:BrandoliniA@wpunj.edu)

Dr. SH Chung  
(973) 720-3458  
[ChungS@wpunj.edu](mailto:ChungS@wpunj.edu)

**Time:** 12:30-1:50 PM  
**Place:** Science Room 433



## EAS 2004 THERMAL ANALYSIS SESSION

As part of the technical activities at the Eastern Analytical Symposium to be held this **November 15-18** at the Garden State Convention Center in Somerset, NJ are two sessions on thermal analysis. These sessions will be held on **Wednesday, November 17th** and have been arranged by the Garden State Thermal Analysis Association (GSTA2). For additional information  
*(continued on page 10)*



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## **EAS 2004 THERMAL ANALYSIS SESSION**

(continued from page 19)

mation regarding the thermal analysis sessions or the GSTA2, review the web page at <http://www.njacs.org/thermal.html>, or contact the Chair at [imer.vitez@cardinal.com](mailto:imer.vitez@cardinal.com).

### **Speaker Schedule for EAS 2004 Session on "Thermal Analysis of Reactions and Transformations, Part I"**

**Date:** Wednesday, November 17, 2004  
**Time:** Morning

#### **9:00 AM**

"The Use of Freeze-Drying Microscopy As an Analytical Tool for Formulation and Process Development"

*Kevin R. Ward*

Biopharma Technology Ltd.

#### **9:40 AM**

"The Study of Liquid Crystal Phase Behaviour by Using Instec Thermal Polarizing Optical Microscope System"

*Henry Zou*

Instec, Inc.

#### **10:00 AM**

Break

#### **10:40 AM**

"Problem Solving Capabilities of Ampoule, Batch Mixing and Circulating Vessels of Micro DSC"

*Ignatius Chan*

Setaram, Inc.

#### **11:20 AM**

"Applications of Micro Reaction Calorimetry"

*Martyn Ottaway*

Thermal Hazard Technology, Inc.

### **Speaker Schedule for EAS 2004 Session on "Thermal Analysis of Reactions and Transformations, Part II"**

*Sponsored by Cardinal Health*

**Date:** Wednesday, November 17, 2004  
**Time:** Afternoon

#### **2:00 PM**

"Formulation Development of Gelatin Capsules Using Thermomechanical and Texture Analysis"

*Imre Vitez*

Cardinal Health

#### **2:20 PM**

"Pharmaceutical Applications of High Performance DSC"

*Charles Potter*

TA Instruments

#### **2:40 PM**

"The Use of Thermal Effusivity for Material Characterization and Process Monitoring"

*Suzanne Mutz*

Mathis Technologies

#### **3:00 PM**

"The Role of Microcalorimetry in Interfacial Binding in Adhesion"

*Stephen Antalics*

Lehigh University

#### **3:20 PM**

Break

#### **3:40PM**

"New High Sensitivity DSC"

Steve Sauerbrunn

Mettler Toledo

#### **4:00PM**

"Combining Light Microscopy, IR Microspectroscopy and XRPD for Solid State Pharmaceutical Characterization"

*M. Norman*

SensIR Technologies.



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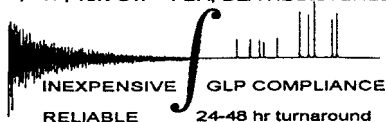
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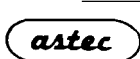
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