

# THE Indicator

FEBRUARY 2004

Vol. 85 • No. 2

ISSN0019-6924



**Professor Ronald  
Breslow**



**Professor Carolyn  
Bertozzi**



**Professor David  
MacMillan**

**Chemistry As  
A Life Science  
Symposium XII  
Friday, March 19, 2004  
Rutgers University  
Newark, NJ**



**Professor Alois  
Fürstner**



**Professor Andrew  
Myers**



**Professor Robert  
Williams**

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PERIODICALS POSTAGE

## Education

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**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  
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Refreshments 10:30 AM, Lecture at 11:00

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# THE Indicator

CIRCULATION: 12,000

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

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
March	January 14, 2005



### 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.

**POSTMASTER:** Send address changes to American Chemical Society, Department of Member and Subscriber Services, *THE INDICATOR*, P.O. Box 3337, Columbus, OH 43210, or e-mail: [service@acs.org](mailto:service@acs.org). Periodicals postage paid at Montville, NJ and additional mailing offices.

Published monthly except July and August. All views expressed are those of the editor and contributors and do not necessarily represent the official position of the New York and North Jersey Sections of the American Chemical Society unless so stated. Subscription price included in dues paid by New York and North Jersey Section members. **Subscription price to non-members of either Section \$20.00 per year.** To subscribe, make checks payable to The Indicator and mail to the Manager/Editor (see top of left column on this page).

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# February Calendar

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## NEW YORK SECTION

**Friday, January 30, 2004**

Hudson-Bergen Chemical Society

See page 11.

**Thursday, February 5, 2004**

Long Island Subsection

See page 11.

**Wednesday, February 18, 2004**

Westchester Chemical Society

See page 12.

**Tuesday, February 24, 2004**

Biochemical Topical Group

See page 12.

**Friday, February 27, 2004**

High School Teachers Topical Group

See page 13.

## NORTH JERSEY SECTION

**Thursday, February 5, 2004**

Careers in Transition

See page 5.

**Monday, February 9, 2004**

No. Jersey Teacher Affiliates

See page 5.

**Tuesday, February 10, 2004**

NJ Mass Spectrometry Discussion Group

See page 6.

**Wednesday, February 11, 2004**

North Jersey Chromatography Group

See page 6.

**Wednesday, February 18, 2004**

NMR Topical Group

See page 8.

**Tuesday, February 24, 2004**

No. Jersey Executive Committee

See page 5.

**Wednesday, February 25, 2004**

ChemTAG

See page 8.

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William H. Nichols

2004 Distinguished

Symposium & Medal Award

Banquet, April 16, 2004.

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Deadline for items to be included in the April 2004 issue of  
*The Indicator* is February 13, 2004.

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## North Jersey Meetings

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<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. All ACS members are welcome to attend.

The Chromatography Group will meet after the Executive Committee.

**Date: Tuesday, February 24, 2004**

Times: 4:15 PM

Place: Hartman Lounge  
Mansion Building  
Fairleigh Dickinson University  
Madison, NJ

Cost: \$25.00 for Dinner

Reservations: for dinner call (908) 522-1122 and state your wish to make reservations for the ACS dinner before **Wednesday, February 18, 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, February 5, 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.



### TEACHER AFFILIATES GROUP

#### Executive Committee Meeting

**Date: Monday, February 9, 2004**

Place: Chatham High School  
255 Lafayette Avenue  
Chatham, NJ

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

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## Education

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The short course  
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**When: March 2 - 4, 2004**

**Where: Somerset, New Jersey**

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**760-249-3471**

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**[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)

## **MASS SPECTROMETRY DISCUSSION GROUP**

### **Application of ProteinChip Mass Spectrometry in Biomarkers**

*Sponsored by CIPHERGEN Biosystems*

#### **Topic 1: Recent Advancements in SELDI ProteinChip® Array Technology**

*Scot R. Weinberger*

Director of Research Proteomics  
CIPHERGEN Biosystems, Inc.

This talk presents recent advancements in the effort to identify and characterize potential biomarkers discovered using SELDI technology. Advancements in the areas of on-chip and off-chip purification and enrichment will be presented along with new strategies for on chip proteolysis. A ProteinChip Interface for tandem quadrupole time-of-flight mass spectrometry will be described and demonstrated to be useful in supporting array mediated protein identification and characterization studies. New array chemistries that make use of integral photo-responsive polymers that enable desorption / ionization of adsorbed proteins without the addition of conventional MALDI matrices will be described. Finally, a new electrostatic sector time-of-flight mass spectrometer with enhanced mass dynamic range will be presented. Taken collectively, these SELDI technical advancements have successfully addressed routine identification / characterization challenges while concomitantly increasing the overall dynamic range of protein detection for SELDI analysis.

#### **Topic 2 : SELDI-TOF Mass Spectrometry in Diagnostic Oncoproteomics**

*John Roboz, Ph.D.*

Professor, Mount Sinai School of Medicine,  
One Gustave Levy Place, New York, NY

Oncoproteomics refers to the application of proteomic technologies in oncology. The following aspects of the SELDI (surface-enhanced laser desorption ionization) - TOF methodology will be discussed: (a) mechanism of SELDI and selection of techniques; (b) relevant aspects of mass spectrometry, including direct TOF, interfaces for qTOF, mass range, resolution, specificity, sensitivity, and problems in quantification; (c) contrasting current approaches to differential-display proteomics, namely using patterns of protein profiles and identifying individual proteins that are significantly and reproducibly up-regulated or down-regulated; (d)

current results for the diagnosis of specific types of malignancies. Identified proteins may be used to develop rapid and highly specific antibody-based analytical techniques, and tumor-specific proteins may serve as targets for immunotherapeutic intervention.

#### **Topic 3: Integration of Proteomics with Pathology and Histology**

*Stanley M. Belkowski*

MorphoMetrics Team  
Johnson & Johnson Pharmaceutical  
Research and Development, L.L.C.  
Spring House, PA

We have employed a unique integration of techniques combining histology and pathology technology with functional proteomics. By utilizing the CIPHERGEN ProteinChip® in conjunction with immunohistochemistry and in situ hybridization, we have shown our ability to discover biomarkers, identify these proteins and determine their expression in both normal and diseased human and rodent tissues. Elements of this integrated technology will be presented. In addition, we have pursued ligand fishing in an effort to identify the specific binding of proteins to compounds in the J&JPRD pipeline. The identification of such proteins could lead to the determination of mechanisms of action as well as possibly providing significant support to New Molecular Entities (NMEs).

**Date: Tuesday, February 10, 2004**

Times: Social 5:30 PM

Dinner 6:30 PM

Seminars 7:15 PM

Place: Somerset Marriott

Cost: None

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



## **NORTH JERSEY CHROMATOGRAPHY GROUP**

### **Defendable Chromatographic Data and Regulatory Risk**

*Speaker:* Jonathan Crowther

Ortho-Clinical Diagnostics

Good Manufacturing Practices (GMPs), other domestic and international regula-

tions, along with the need for efficient business practices have encouraged the practicing chromatographer to develop highly qualified test methods that are:

- Validated to ICH and FDA requirements
- Tested on qualified equipment
- Tested against appropriate and qualified referenced standards
- Utilize Part-11 compliant data systems
- Are performed by trained and certified laboratory analysts
- Etc.

Data from these methods are accurate, precise, reproducible, and importantly ... defensible. Data of such quality are useful in simplifying regulatory filings, justifying method changes, and improving product specifications. In fact, recent FDA initiatives (PAT) support risk-based decisions for product quality improvement. This discussion will briefly review the process of obtaining defensible data leading to simplifying regulatory change, with improved product quality and customer value.

Dr. Crowther is currently Director of Analytical Services for Ortho-Clinical Diagnostics, a Johnson & Johnson Company in Raritan, NJ. Jonathan has over 21 years' experience in academia and private industry, 15 of those years in Analytical Research with Johnson & Johnson. He is co-editor (with Prof. James Miller) of the text: *Analytical Chemistry in a GMP Environment*, based on the J&J Laboratory Analyst Training Program. He recently completed an 18-month international assignment at Janssen Pharmaceutica in Beerse, Belgium as part of the J&J International

Development Program (IDP). He is active in developing systems for lab management and analytical method development. In addition to authoring numerous research publications that focus on chromatography stationary phase synthesis, electrospray HPLC-MS and laboratory GMPs, Jonathan has received the Johnson & Johnson Distinguished Analytical Scientist Award for his work in developing HPLC-MS technology for quantifying peptide drugs in complex biological fluids. Jonathan served as Chair of the North Jersey Chromatography Group in 1996-1997.

**Date: Wednesday, February 11, 2004**

Times: Social and registration 5:30 PM

Dinner 6:30 PM

Seminar 7:30 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, February 9**. 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

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## NMR TOPICAL GROUP

### Seminar Announcement: "NMR Spectroscopy of Encapsulated Proteins in Low Viscosity Fluids"

*Speaker:* Dr. A. Joshua Wand  
Professor of Biochemistry &  
Biophysics  
University of Pennsylvania

We are pleased to have Dr. Wand as our speaker for the February NMR Topical Group meeting. Dr. Wand is an accomplished spectroscopist and has extensive experience in the elucidation of large molecules by both, Solid State and Solution NMR. In his presentation Dr Wand will discuss a novel approach to making the NMR relaxation properties of large proteins amenable to modern solution NMR techniques. This topic has far reaching appeal to all members of our scientific community as it involves interdisciplinary aspects as well.

**Date:** Wednesday, February 18, 2004

**Times:** Social hour 6:15 PM

Dinner 7:00 PM

Seminar 7:45 PM

**Place:** The Woodbridge Hilton

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

Please visit our website at <http://njacs.org/nmr.html> for further information, directions and registration. You may also register for this exciting event by e-mailing Dr. Gerald Stockton, [gstockton@comcast.net](mailto:gstockton@comcast.net), or Dr. Thomas Schuster, [tschuste@optonline.net](mailto:tschuste@optonline.net). We thank our sponsors, which make this possible, and if you want to find out more about our sponsors, come and visit our website.



## ChemTAG MEETING

### "Mini Rocket" Make-and-Take Activity

**Date:** Wednesday, February 25, 2004

**Place:** 331 George Street  
Franklin Likes, NJ

For directions: [http://www.rih.org/athletics/direction\\_rhs.html](http://www.rih.org/athletics/direction_rhs.html). Contact Diane Krone at [kroned@optonline.net](mailto:kroned@optonline.net) or (201) 385-4810. Bring your favorite demo or lab activity to share with the group.



## YOUNGER CHEMISTS COMMITTEE

### Forensic Sciences Panel Discussion

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

Karen Dooling  
Assistant Director  
Nassau County Medical  
Examiner's Office

Thomas Brettell, Ph.D  
Director, Forensic Science  
Laboratory Bureau  
NJ State Police

Do you enjoy the suspense and intellectual stimulus of such TV hits such as Law & Order and CSI? Are you intrigued by the use of cutting-edge science and analytical techniques 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 scientific backgrounds and quick problem-solving 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 16, 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 reservation 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\\_map.html](http://www.fdu.edu/visitorcenter/directions/florham_map.html).



## CHEMISTRY AS A LIFE SCIENCE

### A Historical Perspective

This year marks the twelfth of these biennial, one-day symposia held under the auspices of the American Chemical Society through its Division of Medicinal Chemistry and Division of Organic Chemistry and its North Jersey Section, and sponsored by more than a score of major pharmaceutical and related research-based chemical companies. The series began in 1982 with a symposium dedicated to the memory of Dr. Willy Leimgruber, an organic chemist and Director of Chemical Research at Hoffmann-La Roche in Nutley from 1973 until his untimely death in 1981. His research interests had included structure elucidation and synthesis of natural products and the study of their potential utility as medicinal agents. As with all the ensuing symposia, the first symposium was an overwhelming success, attracting a capacity audience of over 750 research chemists from both academia and industry.

It became immediately clear after the initial event that such a symposium, in the heartland of the pharmaceutical industry, had served a scientific need of the research-based chemical and pharmaceutical community in New Jersey and the Eastern Seaboard's middle-Atlantic region. Subsequently, key representatives from the pharmaceutical research industry in northern New Jersey solidified the organizational process to insure that similar events would continue into the future on a biennial basis. Invitational lectures at the pioneering symposium addressed issues central to the focus of modern pharmaceutical research, ranging from synthetic organic chemistry to topics at the interface of chemistry and biology. Subsequent meetings have adopted this philosophy and format, continuing to focus the attention of research chemists on the relevance of their science to an understanding of biology at the molecular level and to the ability of organic chemists to intervene in biological processes for therapeutic benefits. Symposium XII will continue this tradition as chemistry continues to move to become an inclusive science - one that incorporates within itself all of the various disciplines to which it contributes, especially the biological sciences.

Chemistry As A Life Science, traditionally free and open to the research community on a first-come, first-served basis, has rapidly evolved into a major organic chemistry event. The invited speakers for this twelfth

symposium include Professors Carolyn R. Bertozzi, University of California at Berkeley, Ronald Breslow, Columbia University, Alois Fürstner, Max-Planck-Institut für Kohlenforschung, David W. C. MacMillan, California Institute of Technology, Andrew G. Myers, Harvard University, Robert M. Williams, Colorado State University.

The 2003-2004 Organizing Committee consists of organic and medicinal chemists from some of our major pharmaceutical companies, including Aventis (James A. Hendrix), Bristol-Myers Squibb (W. Richard Ewing), Hoffmann-LaRoche (David Bolin), Lexicon (Michael Becker), Merck & Company (Emma R. Parmee), Novartis Pharmaceuticals (Roger A. Fujimoto), Schering-Plough (Robert G. Aslanian), and Wyeth (Eugene J. Trybulski). Rutgers, the State University is the host and provides the use of the Newark campus with the compliments of the State of New Jersey. Financial support, which has always made this series possible, has been once again generously provided by most of the major pharmaceutical houses and related chemical companies on the Eastern Seaboard.

Stan S. Hall, (Organizing Committee member)

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## **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>

## **2003 BAEKELAND AWARD DINNER**



**Above: Patrick Walsh, Ratna Shekhar,  
Anne Kelly, Robert Bergman, John  
Hartwig, John Wood, Geoffrey Coates,  
Alan Cooper, Burke Wagner, Les  
McQuire, Elsa Reichmanis.**



**At Right: John F. Hartwig Awardee.  
Burke Wagner Award Presenter.**

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## New York Meetings

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*njesper1@optonline.net*

### **HUDSON-BERGEN CHEMICAL SOCIETY — JOINT MEETING WITH NEW JERSEY CITY UNIVERSITY**

#### **The Basics of Chemistry Demonstrations**

*Speaker:* Dr. George Gross

Demonstrations by a professor in chemistry have been around as long as the teaching of chemistry has been. Demonstrations are a great way to illustrate concepts in chemistry. The Hudson-Bergen Chemical Society is happy to present one of the leading chemical educators. Using readily available materials and supplies, he will demonstrate a variety of colorful activities applicable to secondary education and college instructors.

Dr. Gross is retired from Union High School where he taught AP chemistry and Chem Com among other courses for over 35 years. He received his BA and MA from Montclair State University and holds a MS from Syracuse and an Ed.D. from Rutgers. He has served as president of NJSTA, chair of the ACS-North Jersey Teachers' Affiliate, founder of the Chem TAG group and chairman of CHEMED '85. Dr. Gross is co-author of "A Demo a Day — A Year of Chemical Demonstrations."

**Date: Friday, January 30, 2004**

Times: Social 5:30 PM  
Dinner 6:00 PM  
Lecture 7:00 PM

Place: New Jersey City University  
Round Table, Room 205  
Gilligan Student Union Building  
2039 Kennedy Boulevard  
Jersey City, NJ

Cost: Dinner \$20.00; \$10.00 for students

Reservations: Sheila (secretary) at (201) 200-3066 **by Tuesday, January 27, 2004.**

### **LONG ISLAND SUBSECTION**

**Seminars and Activities — Spring 2004**

*Speakers and Subjects:* TBA

#### **Analytical Chemistry**

Thursday, February 5, 2004

#### **Organic/Pharmaceutical Chemistry**

Thursday, March 11, 2004

Times: Coffee 5:30 PM  
Seminar 6:00 PM  
Dinner 7:00 PM  
All invited to join the speaker

Place: Hofstra University  
Chemistry Building  
Lister Lecture Hall  
Hempstead, NY

Cost: Dinner \$15.00 (\$20.00 with wine)

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

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(\*author of Excel for Chemists 2/e,  
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*Speaker:* Craig Wurzel  
Business Manager and Owner  
of Mikroglas of North America

For several years, microreaction technology has been discussed by experts in industry and universities. The advantages of this technology are well known. Many modules, ex. reaction chambers, mixing units and heat exchanges have been developed and tested, mainly by research institutes. But there are only a few real applications in industrial production. One of the reasons for this is that besides the microstructure a lot of peripheral equipment is needed to run such a microreactor. The presentation will describe the processes to manufacture microreaction modules from the photostructurable glass FOTURAN and the combination with different pumps, valves, sensors, safety features, process control units, etc. which are necessary to run a microreactor for fast exothermic reactions with aggressive chemicals. The "mikrosyn" microreaction device will be shown. Topics of discussion will also include more react innovations. Phase separation components / in line IR spectrometer for the microreaction system.

**Date:** Wednesday, February 18, 2004

**Times:** Refreshments 5:30 PM

Presentation 6:00 PM

**Place:** Westchester Community College  
Administration Building  
(Use Parking Lot #3)

Conference Room (Lower Level)  
Valhalla, NY

**Time:** Dinner 7:15 PM

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

For further information contact Joan Laredo-Liddell at (914) 476-6860.

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

**Therapeutic Approaches to Regenerate  
and Restore Pancreatic Function in  
Type 2 Diabetes Mellitus**

*Organizers:* Judith L. Treadway  
Pfizer Global Research &  
Development

John R. Wetterau  
Bristol-Myers Squibb

Pancreatic beta-cell dysfunction is a hallmark of Type 2 Diabetes. This dysfunction results from impaired insulin secretion in response to nutrient stimuli, metabolic/hormonal abnormalities associated with diabetes, and atrophy of beta cell mass as a result of this chronic disease. This symposium will address current and future therapeutic strategies to regenerate and restore pancreatic function, including treatment with incretin hormones, novel insulin secretagogues, DPPIV inhibitors, trophic and transcriptional regulators of beta-cell development, and islet cell imaging techniques.

**"Beta-cell 101 – a short course on normal and abnormal function, and what is needed in new beta cell therapies for treating type 2 diabetes"**

*Christopher Newgard*  
Duke University Medical Center

**"Incretin hormones – physiology and pharmacology"**

*Daniel Drucker*  
Toronto General Hospital

**"DPP IV inhibitors and their pharmacologic regulation of incretin hormones to increase insulin secretion"**

*Thomas Hughes*  
Novartis Pharmaceuticals Corp.

**"Regulation of beta-cell mass and neogenesis: potential for therapeutic modulation"**

*Susan Bonner-Weir*  
Joslin Diabetes Center

**"Imaging pancreatic beta-cells"**

*Anna Moore*  
Massachusetts General Hospital

**Date:** Tuesday, February 24, 2004

Time: 1:00 – 5:15 PM  
Place: New York Academy of Sciences  
2 East 63rd Street  
New York, NY  
Web: [www.nyas.org](http://www.nyas.org)

**Space is limited. Reserve your seat today by completing the online reservation form at: [http://www.nyas.org/calendar/cal\\_details.cfm?ItemID=787](http://www.nyas.org/calendar/cal_details.cfm?ItemID=787).**

NYAS Members, BPDG Affiliates, and Students may attend BPDG meetings free of charge. Non-members may attend for a fee of \$20 per event. To become a Member of the Academy, visit [https://www.nyas.org/orders/mem\\_new.cfm](https://www.nyas.org/orders/mem_new.cfm).



## **HIGH SCHOOL TEACHERS TOPICAL GROUP**

### **Safety in the Science Classroom**

*Speaker:* Lew Machick  
Brooklyn Technical High School

**Date: Friday, February 27, 2004**

Times: Social and Dinner 5:45 PM  
Place: Caffe 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, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.

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The advertisement features a background image of a laboratory flask containing a liquid. The text is arranged in a structured layout, with the word 'SOLUTIONS' at the top in large, bold letters. Below it is a quote in italics. The core services are listed in a grid-like format. The QTI logo is prominent, and contact information is provided at the bottom right.



# 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.)

Reserve a table in the name of \_\_\_\_\_

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

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## **EIGHTH ANNUAL FRANCES S. STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM**

### **Alternative Energies — The Answer to Long Island's Insatiable Demand?**

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.



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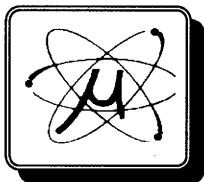
## **Call For Nominations**

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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.



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## Call for Nominations

### **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.**



### **THE EDWARD J. MERRILL AWARD — NORTH JERSEY SECTION OF THE AMERICAN CHEMICAL SOCIETY — EDUCATION COMMITTEE**

The Merrill Award recognizes outstanding high school chemistry teachers from the

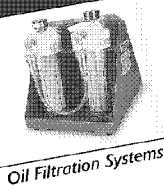
Section for excellence in high school teaching. The award consists of \$500.00 presented to the recipient plus a \$500.00 grant presented to the chemistry program of the recipient for purchase of equipment and/or supplies for their classroom.

Nominations may be made by any of three methods. Self nomination, nomination of a colleague or nomination of any deserving chemistry teacher by someone outside the school such as a parent, former student or other individual. Note: current students MAY NOT participate in the nomination of a teacher. Further details and forms are available at [njacs.org](http://njacs.org) under the Education Committee or by writing to the committee at 445 Wyoming Avenue, Millburn NJ 07041 or by request at [njmoxie1@worldnet.att.net](mailto:njmoxie1@worldnet.att.net)

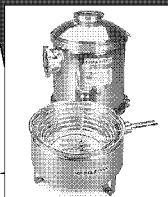
Nominations are accepted throughout the year. The award is presented in May.

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## **WESTCHESTER CHEMICAL SOCIETY DISTINGUISHED SCIENTIST AWARD 2004**

The Westchester Chemical Society is seeking nominations for its Distinguished Scientist Award 2004. Applicants must live or work in Westchester. Applications are due **by April 1, 2004**. Send application to: Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701-5239.

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## **Others**

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

#### **Nanotechnology—Hype or Hope?**

*Speaker:* Dr. Sam Brauer

There have been many fanciful extrapolations of nanotechnology to date: in articles found in the popular press, television, and the movies. Uses of nanotechnology have run the gamut from killer nanorobots to replacing surgeons. Meanwhile, skeptics have pointed out that nanotechnology projects are based more on fantasy than science, and scoff that most of the claims are practically impossible.

The reality of nanotechnology today is different than either side of the debate has portrayed in the popular press. Nanotechnology products are high value added materials which are being used in commercial applications, as well as being a staple of research. Both research and commercial uses of nanotechnology are expanding, and will continue to do so for the foreseeable future.

Dr. Brauer received his B.A. from Brandeis University, followed by a Ph.D. in Bio-inorganic Chemistry from Dartmouth College in 1990. He did a postdoctoral stint at University of California in Davis in Gerd LaMar's laboratory.

**Date:** Tuesday, February 24, 2004

Times: Cash Bar 6:00 PM  
Dinner 6:30 PM  
Presentation 7:30 PM

Place: Ben's Deli  
209 West 38th Street  
New York, NY

Cost: Members/guests \$40.00  
Visitors \$50.00

To Reserve: Call Linda B. Townsend at 1-973-729-6671 or e-mail: [accce@chemconsult.org](mailto:accce@chemconsult.org). Advanced registration is required. Cancellations must be made 24 hrs in advance. Please visit our web site for more details: [www.chemconsult.org](http://www.chemconsult.org).



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

#### **Seminar Series — Spring 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  
Merk & Co., Inc., Rahway, NJ

*(continue on page 18)*



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## OTHERS

(continued from page 17)

**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 Hauck 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

### Seminar Series Coordinators:

Dr. Carol Venanzi

venanzi@njit.edu

973-596-3596

Dr. Sanjay Malhotra

malhotra@njit.edu

973-596-5583



## WHY IQ IS NOT ENOUGH

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*Sponsored by Women Chemists Committee*

**Workshop Overview:** This workshop introduces participants to the concept of Emotional Intelligence and explores the crucial link between Emotional Intelligence skills and Career Success. Each Emotional Intelligence area will be explored, allowing participants to gather ideas and strategies for specific actions to increase Emotional Intelligence. This course provides practical advice for those who easily get "triggered"; for those who feel like they have to "walk on eggshells" around certain people (or if oth-



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ers have to walk on eggshells around you). Learn the biochemistry behind getting "emotionally hijacked," and specific techniques that will help you "cool" down your own or others' emotions. By the end of the workshop, each participant will have a personal development plan of EQ skills to develop in order to maximize career potential, and an emotionally intelligent strategy for dealing with others who may get emotionally hijacked.

**Target Audience:** Designed to provide tools to female scientists that will enhance leadership skills and maximize career potential. The workshop is targeted to early and mid-career women chemists, and will be facilitated by the Edmondson Consulting Group.

**Date:** Monday, March 29, 2004

**Times:** 9:00 AM - 4:00 PM (includes lunch)

**Place:** during ACS spring national meeting  
Anaheim, CA

**Cost:** \$199.00 per participant. Send check with registration form.


Print the registration form from the WCC website at <http://membership.acs.org/wcc/> and mail to Dr. Amber Hinkle, 535

County Road 4015, Dayton, TX 77535.  
**Deadline is February 15, 2004.**

## Call for Travel Awards

Sponsored by the Eli Lilly & Co., the ACS Matching Gift Fund, and the ACS Women Chemists Committee, funding is available for undergraduate, graduate, and postdoctoral women chemists to travel to scientific meetings in 2004 to present their research.

Awards will be given with preference to the following order: (1) any applicant who will be making her **first** presentation (regardless of format) at a major scientific meeting; and (2) graduate postdoctoral applicants who have not presented at a national or major meeting since leaving undergraduate school. Grants may be applied only for registration, travel, and accommodations, and are restricted to travel to meetings within the United States. **Application deadline is February 15, 2004 for meetings between July 1 and December 31, 2004.** For more information, check the WCC website: <http://membership.acs.org/WWCC/> or e-mail: [wcc@acs.org](mailto:wcc@acs.org).



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