

THE Indicator

FEBRUARY 2004

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**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**

RECYCLE THIS PAPER

PERIODICALS POSTAGE

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
Refreshments 10:30 AM, Lecture at 11:00

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THE Indicator

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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.

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

February Calendar

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.

William H. Nichols
2004 Distinguished
Symposium & Medal Award
Banquet, April 16, 2004.

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

<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, 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 or (201) 385-4810.

Education

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

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When: March 2 - 4, 2004

Where: Somerset, New Jersey

Contact Bioanalytical Technologies at
760-249-3471

or check our website for details at
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 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, 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.

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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, or Dr. Thomas Schuster, 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. Contact Diane Krone at 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 or via e-mail to 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.

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.**

New York Meetings

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.

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(617) 552-3619 or joseph.billo@bc.edu

(*author of Excel for Chemists 2/e,
John Wiley & Sons, 2001)

**WESTCHESTER CHEMICAL
SOCIETY — JOINT MEETING
WITH THE TAPPAN ZEE
SECTION OF AIChE**

**Glass Microreactors and Microreaction
Systems for Development and
Production**

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

Space is limited. Reserve your seat today by completing the online reservation form at: http://www.nyas.org/calendar/cal_details.cfm?ItemID=787.

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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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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 _____

Names of guests are:

Indicate number in your group who choose:

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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 or (516) 876-2738.

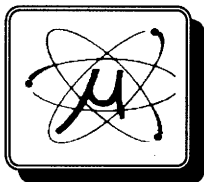


Call For Nominations

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

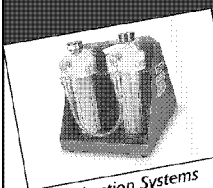
Section for excellence in high school teaching. The award consists of \$500.00 presented to the recipient plus a \$500.00 grant presented to the chemistry program of the recipient for purchase of equipment and/or supplies for their classroom.

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 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

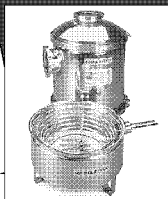
Nominations are accepted throughout the year. The award is presented in May.

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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.

Others

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. Advanced registration is required. Cancellations must be made 24 hrs in advance. Please visit our web site for more details: 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

Secrets to Realizing Your Full Career Potential

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.



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