DR. JAMES W. CANARY
2005 CHAIR
ACS NEW YORK SECTION
New York Section Chair’s Message

What is the significance of a local section and why should we participate in it? The American Chemical Society is the world’s largest membership organization, yet it depends on local sections to provide energy, ideas, and leadership to drive the larger organization. In contrast to the publications and disciplinary divisions, the local sections bring people together with diverse educational and professional perspectives. The local section operates more like a family, driven by geographically defined needs and interests, pulling together people with heterogeneous roles in a setting that requires them to learn from and benefit each other. It forces the organization stay on track with respect to the needs of its members and includes participation by important groups that might not otherwise have a strong presence. Thus, the local section component of the ACS is an attractive and necessary feature, but it requires our participation in order to make it work.

Why don’t you check out one of the many groups that meet in our section? You can find a group based on location from Hudson-Bergen to Westchester to Long Island to every borough of New York City, groups based on common interests including Young Chemists, Student Affiliates, MetroWomen Chemists, High School Teachers, and Retired Chemists, or groups that focus on topics, including Analytical Chemistry, Chromatography, Biochemistry, Chemical Marketing and Economics, Computers in Chemistry, Inorganic and Organometallic Chemistry, and Organic Chemistry. There are special events including graduate, undergraduate, and high school poster sessions, the contests for high school and college students, and section-wide meetings. Please contact me with your creative ideas that may allow us to add to this list, particularly new locations, people, groups, or cutting-edge topics. You can find meeting times and locations (and a wealth of other information) at the section web site, http://www.NewYorkACS.org/.

Mark your calendar for this year’s William H. Nichols Distinguished Symposium and Medal Award Presentation on April 1, 2004 (no kidding!). This year’s winner is Professor Richard Zare of Stanford University. The topic of the symposium will be “Shining Light on Chemical Processes.” Joining Professor Zare as speakers at the symposium will be Mark Johnson (Yale), John Brauman (Stanford), and W. Carl Lineberger (Colorado). Paul Houston from Cornell will provide more personal insights for us at the banquet. Our 2005 Chair-Elect, Jill Rehmann, has done an outstanding job of putting this event together. Not only will you want to be there, but you’ll want to bring your colleagues along as well.

The New York Section of the American Chemical Society is one of the largest and best sections in the country. We have benefited enormously from the dedicated service of many individuals serving in many capacities in the section. Last year’s Chair, Vijaya Kori, did an outstanding job for our section. We also appreciate many other dedicated servants working on the section board, leading subsections and topical groups, organizing poster sessions and contests, and many other activities. It is my privilege to have the opportunity to serve you along side these individuals.

This year, I would like to work hard to facilitate interactions and cross-fertilization of ideas among the section subgroups, strengthen relationships with other chemistry-based scientific organizations in our area, foster even greater diversity among the section’s active participants, and raise the profile of chemistry among the public in our region. Please join us in these efforts, you will be glad that you did!

James W. Canary
2005 Chair
ACS – New York Section

Deadline for items to be included in the February 2005 issue of The Indicator is December 13, 2004.
LONG ISLAND SUBSECTION
The History of Taxol
Speaker: Dr. William Berkowitz
Emeritus Professor of Chemistry
Queens College
City University of New York
The talk will cover the history of Taxol, a potent anti-cancer drug; its discovery, total syntheses, and pharmaceutical development.

Date: Thursday, December 2, 2004
Times: Coffee 5:30 PM
Seminar 6:00 PM
Dinner 7:00 PM
Place: Hofstra University
Lisner Auditorium
California Avenue
New Chemistry Building

CHEMICAL MARKETING & ECONOMICS (CM&E) GROUP
The Wall Street View of the Chemical Industry
Speaker: TBA

Date: Tuesday, December 7, 2004
(Note change in date from 2nd Thursday of the month)
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 Friday, December 3 (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. To pay online (via PayPal), go to the CM&E Website: http://home.nyc.rr.com/chemmarkecon/

BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP
Genomic Approaches to Understanding Chronic Pain States
Organizers: Tony Priestley
Schering-Plough Research Institute
Tage Honore
Purdue Pharma L.P.
Lillian W. Chiang
Purdue Pharma L.P.

Speakers:
Ardem Patapoutian
The Scripps Research Institute
David J. Fink
University of Michigan
Clifford J. Woolf
Massachusetts General Hospital and Harvard Medical School
Stephen G. Waxman
Yale Univ. School of Medicine
Lillian W. Chiang
Purdue Pharma L.P.

Date: Tuesday, December 7, 2004
Time: 1:00 – 5:00 PM
Place: New York Academy of Sciences
2 East 63rd Street
New York, New York

Space is limited. To reserve a seat, go to the calendar at www.nyas.org and fill out the online reservation form, e-mail BPDG@nyas.org or call (212) 838-0230 x322.
NYAS Members and BPDG Affiliates may attend BPDG meetings free of charge. Non-members may attend for $20. Students and postdoctoral fellows may attend for $10. To become a Member of the Academy, visit http://www.nyas.org/landing.html.

HIGH SCHOOL TEACHERS TOPICAL GROUP
Nanotechnology
Speaker: Rolande R. Hodel
Chemist
CUNY, Queens College
Graduate Student Mentor
Prof. Dr. Harry D. Gafney
Westchester Chemical Society
Treasurer

Nanotechnology has become a buzzword. With increasing government funding for nano research and venture capitalists hoping that this tiny technology will be the next big thing, the question arises: “What is Nanotechnology and what is it not?”. To answer this question, the presentation will first give a historical overview and then explain in more detail the unique physical properties of nano material using cadmium selenide quantum dots as an example. Cadmium selenide is a semiconductor widely used in computer chip and light emitting diode manufacturing. However, synthesized as a nano material, ranging in size from 2-10 nanometers (10-50 atoms) in diameters, they are also referred to as quantum dots. At these small sizes, materials behave differently giving quantum dots unprecedented tunability and enabling never before seen applications to science and technology.

Date: Friday, December 10, 2004
Time: 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. 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.

New York Meetings
www.newyorkacs.org
WESTCHESTER CHEMICAL SOCIETY
The Volcanic Eruption on the Greek Island of Santorini
Speaker: Yuri Gorokhovich
Columbia University
One of the major events that changed development of our civilization was the volcanic eruption of the Greek island of Santorini (ca. 1500-1600 BC). This eruption at the end of the Bronze Age coincided with the end of the famous Minoan civilization on Crete. It also influenced a shift in agricultural activities and political powers in the Mediterranean region. The movie is a vivid and concise illustration of geological settings of Santorini volcano and archeological findings in the region.

Our speaker is a specialist in application of Geographic Information System in the fields of hydrology and environmental modeling. Yuri Gorokhovich established and managed the first GIS in 1992 for the Division of Water Quality and Control, New York City Department of Environmental Protection, and served for nine years. In 2004, he joined the research team at the Center for International Earth Science Information Network within the Earth Institute at Columbia University. Yuri started making the documentary film while at Purchase College and his two movies were nominated for awards at the First International Earth Film Festival in Florence.

Date: Wednesday, December 1, 2004
Times: Refreshments 5:30 PM
Seminar 6:00 PM
Dinner 7:15 PM
Place: Westchester Community College
Administration Building
Conference Room (lower level)
Time: Dinner 7:15 PM
Place: At a local restaurant
Further information contact Joan Laredo-Liddell at JlLaredoLiddell@aol.com. Travel information contact Dr. Bernard Koser at bernard.koser@sunywcc.edu.
INORGANIC CHEMISTRY MINISYMPOSIUM — JOINT MEETING WITH THE NYAS CHEMICAL SCIENCES SECTION
Small Molecule Activation and New Bond-Forming Reactions by Low-Coordinate Late Transition Metal Complexes
Dr. Joseph P. Sadighi
Department of Chemistry
Massachusetts Institute of Technology

NMR Studies of Disorder and Motion in Lithium-ion Batteries, Fuel Cells and Environmental Chemistry
Dr. Clare P. Grey
Department of Chemistry and Center for Environmental Molecular Sciences
SUNY Stony Brook

Factors Controlling Heme Electrochemistry: Lessons from the Protein Data Bank and De Novo Heme Protein Design
Dr. Brian R. Gibney
Department of Chemistry
Columbia University

Date: Wednesday, December 15, 2004
Time: 2:30 - 5:30 PM with reception to follow.
Place: New York Academy of Sciences
2 East 63rd Street
New York, NY

For more information and registration, contact the New York Academy of Sciences at (212)838-0230 or conference@nyas.org or on the web at www.nyas.org.
Intelligent Speed: Theory and Practice for Increasing Sample Throughput

Speaker: Diane Diehl

In order to achieve many of the high throughput and high sensitivity goals of today's analytical methods, optimization of operating conditions is critical. Chromatographic runs of 5 minutes or less are now achievable using products with advanced performance. This seminar provides an understanding of how to efficiently and intelligently go about doing this so that chromatographic runtimes can be decreased. Specific topics include:

• A review of the underlying principles governing fast separations. Topics include understanding how flow rates and gradient times influence peak capacity
• Information on the benefits of using columns over cartridge hardware
• Several examples of how new separations can be developed on intelligently designed columns that are 20 mm in length
• A review of the principles governing the scaling of flow rates and gradient times
• Examples of how to scale separations originally run on columns 150 mm in length to columns that are 20 mm in length – including several examples shared with us by external scientists.
• A cost comparison of separations run on a variety of lengths columns
• Discussion about the benefits of using narrow bore columns
• Examples of separations scaled from analytical to narrow bore columns
• Practical considerations for using narrow bore columns

This seminar is aimed at anyone who wishes to reduce the amount of time required in developing robust separations of complex sample mixtures, and who is interested in understanding HOW to increase sample throughput. We focus on separations that are 1 minute to 5 minutes in length.

Diane received her B.S. in chemistry/business from the University of Notre Dame and her Ph.D. in analytical chemistry from Indiana University. She studied under Professor Ronald Hites, and her graduate work focused on using GC-MS to examine the environmental fate of persistent organic pollutants. She is currently an active member of the American Chemical Society and the American Association of Pharmaceutical Scientists. She is the author of several technical publications and has presented her work at many conferences including PittCon, AAPS, HPLC, ACS, SETAC and the Dioxin Conferences.

After graduate school, Diane served as an analytical chemist and a project manager in the environmental fate department at Dow AgroSciences. Her work included developing HPLC methods in support of pesticide registration studies. In 2001, she joined the Chemistry Operations Applied Technology group at Waters Corporation. Current job responsibilities include supervising chemists who develop applications for new and existing chemistry products including analytical and preparative columns and SPE products, developing and delivering seminars covering these applications, troubleshooting customers' separation issues and determining customers' future separation needs.

Date: Tuesday, December 7, 2004
Times: Social and registration 5:30 PM; Dinner 6:30 PM; Seminar 7:30 PM
Place: Somerset Marriott
Cost: $30.00 for Dinner ($15.00 for Students). We accept cash or check only at the time of registration. Credit card payments are accepted during on-line pre-registration, with $5 non-refundable service charge.

If you cannot attend, please be responsible and cancel your registration 48 hours in advance, otherwise forfeiture of pre-payment will occur.

(continued on page 12)
MASS SPECTROMETRY DISCUSSION GROUP

Symposium: “Accurate Mass Measurement of Natural Products, Peptides, Proteins and Biomarkers”

Sponsored by: Corporate Members of NJ ACS MSDG

Program

Accurate Mass Measurement: Taking Full Analytical Advantage of Nature’s Isotopic Complexity
Professor Alan G. Marshall
Center for Interdisciplinary Magnetic Resonance
National High Magnetic Field Lab
Tallahassee, FL
Department of Chemistry

Application of FTICR-MS to Natural Product Structure Determination
Dr. Xidong Feng
Wyeth Research
Pearl River, NY

Date: Monday, January 31, 2005
Times: Social 5:30 PM
Dinner 6:00 PM
Seminar 7:00 PM

Place: Somerset Marriott Hotel
Somerset, NJ

Cost: None
Registration: Must register online at www.njacs.org/ms.html
For additional information, please visit our webpage at www.njacs.org/ms.html
Call for Nominations

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. Re-nominations 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 07110-1199.

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.

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 scientific 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.

Puzzle - Lasers

By Colleen M. Parriott

ACROSS
1. Anon’s partner 5. Like outer space 9. Japanese city

DOWN

Solution on page 20.
EIGHTEENTH ANNUAL SYMPOSIUM OF THE CENTER FOR STUDY OF GENE STRUCTURE & FUNCTION
Chemical Biology: Intervention in Cells Using Chemical Principles


Date: Friday, January 14, 2005
Time: 9:00 AM - 6:00 PM
Place: Hunter College
City University of New York
68th Street at Lexington Avenue
West Building, Room 714 HW
New York, NY

Symposium website: http://genecenter.hunter.cuny.edu/symposium2005
Admission is free. Register online at the symposium website.

Morning Session
Greeting
Opening remarks
Chemical Genetics (Keynote Address)
Stuart L. Schreiber, Ph.D.
Harvard University
Engineering Biosynthetic Pathways for Natural Products to Generate Novel Antitumor Derivatives
Jose A. Salas, Ph.D.
University of Oviedo, Spain

Genomic Screening of Natural Products
Akira Kawamura, Ph.D.
Hunter College, The City University of New York

Better Pharmaceuticals through Biophysical Chemistry
Carmichael C. Roberts, Ph.D.
Surface Logix, Inc., Boston

Activity-Based Protein Profiling: Chemical Strategies for Functional Proteomics
Benjamin C. Cravatt, Ph.D.
The Scripps Research Institute

Stem Cell Scenarios: Bone Marrow to Brain and Brawn
Helen M. Blau, Ph.D.
Stanford University Medical Center

Poster Session: “The New York World of Chemical Biology”
Submit poster abstracts online at the Symposium website. Awards for 3 best posters.
Symposium website: http://genecenter.hunter.cuny.edu/symposium2005
Admission is free. Register online at the symposium website.

Dr. F. George Njoroge

Dr. Njoroge joined Schering-Plough Research Institute in 1988. He has worked in both the anti-viral and anti-cancer areas. Dr. Njoroge was instrumental in the discovery of farnesyl protein transferase inhibitor SARASAR™ that is currently in Phase II clinical trials for the treatment of various cancers. Most recently, Dr. Njoroge led the chemistry team that discovered a hepatitis C virus protease inhibitor that is currently in Phase I clinical trials for the treatment of hepatitis C viral infections.

Dr. Njoroge holds a Bachelor of Science degree in chemistry from the University of Nairobi, Kenya and a Ph.D. in organic chemistry from Case Western Reserve University, Cleveland, OH. Dr. Njoroge has published extensively on synthetic organic chemistry, drug discovery, and medicinal chemistry and has amassed over 80 patents and publications in reputed journals. He received a President’s award from SPRI for the discovery of anti-cancer molecules that eventually led to the development of the anti-tumor agent, SARASAR. In 2001, he received a second President’s award for the discovery of the orally bioavailable hepatitis C protease inhibitor.

Dr. F. George Njoroge received the prestigious, nationally recognized award during the Emerald Honors Conference in Nashville, TN, recently. The Emerald Honors Award recognizes minorities’ participation in the research sciences. “The Emerald Awards are a fitting tribute to deserving people of color,” said Tyrone D. Taborn, president and CEO of CCG. “It’s not easy getting noticed for achievement in the highly competitive world of research sciences and technology,” he said.

“I feel deeply honored to receive this prestigious award and I am greatly indebted to the many excellent and innovative scientists who have worked with me in pursuit of medicines that would alleviate human sufferings,” said Njoroge. “Their encouragement and close collaboration have undoubtedly been the foundation of my success.”

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STURCHIO HONORED

Elected a Fellow of the American Association for the Advancement of Science

Dr. Jeffrey L. Sturchio, Vice President, External Affairs, Merck & Co., has been elected a Fellow of the American Association for the Advancement of Science for “scholarship that bridges the divide between the academic and corporate worlds and for public efforts to alleviate global health problems. Congratulations, Jeff!

Contribute to The Indicator

The Indicator is interested in adding new features to the publication. Your input would be appreciated. Please let us know which type of feature you would like to see in future issues; i.e., book reviews, member news, short articles about your research or other ideas. Would you be willing to assist in gathering or writing such material?

Contact the Editor at: sturchio@optonline.net
Phone: (973) 331-5142
Fax: (973) 331-5143

2005 ACS ProSpectives CONFERENCE

Process Chemistry in the Pharmaceutical Industry
February 6-9, 2005
Miami, Florida
Chairs: Margaret Faul, Amgen; Joseph Armstrong, Merck

Interplay of Chemistry and Biology in Integrative Biology
March 6-9, 2005
Miami, Florida
Chairs: Stephen Naylor, MIT; Michael Briggs, Vertex Pharmaceuticals

Advanced Forensic Science Applications for the Food and Drug Industries
May 1-4, 2005
San Diego, California
Chair: Fred Fricke, FDA

Discovery and Selection of Successful Drug Candidates
Mary 15-18, 2005
Boston, Massachusetts
Chair: Andrew Combs, Incyte Corporation

(Tentative) Organic Microelectronics (joint with IEEE and MRS)
July 10-13, 2005
Ogunquit, Maine (tentative)
Chairs: Tobin Marks, Northwestern (ACS); Henning Sirringhaus, Cambridge University (IEEE); George G. Mallaras, Cornell University (MRS)

Detailed information for these and other ACS ProSpectives conferences can be found by visiting www.acsprospectives.org

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The Indicator readship is New York and Northern New Jersey’s largest source for chemical and biochemical purchasers. 

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Ad Index

**ANALYTICAL**

Astec ............................................. 23
Atlantic Analytical Laboratory, Inc. ............ 21
Case Consulting Labs., Inc. ...................... 23
Chem-HS-TRY, Inc. ................................ 23
Chemi Analytical Services ......................... 21
Chemo Dynamics, L.R ................................ 12
Desert Analytics Laboratory ...................... 18
DuPont Analytical Solutions ...................... 19
Gablraith Laboratories ............................ 23
Gateway Chemical Technology ................... 18
Goldstein Associates ............................. 22
Huffman Laboratories, Inc. ....................... 22
Impact Analytical, Div. of m.m.i. .................. 15
ISSI Laboratories, Inc. ........................... 23
J.S.T. ............................................. 23
Jordi FLP ......................................... 21
Metuchen Analytical, Inc. ......................... 21
Micron Inc. ..................................... 13
NetChem, Inc. ................................... 23
New Jersey Institute of Technology .............. 21
Numare Spectralabs Inc. .......................... 21
NuMega Resonance Labs ......................... 22
Polymer Processing Institute ..................... 22
Primera Analytical Solutions Corp. .............. 22
Quantitative Technologies Inc. ................... 8
Robertson Microil Labs .......................... 2
Schwarzkopf Microanalytical ...................... 22
Spectral Data Services ........................... 23
Spex Certi Prep. Inc. ............................ 17
Tyger Scientific Inc. ............................ 22

**EDUCATION**

Rutgers University, Newark ...................... 10
Seton Hall Chemistry Dept. ....................... 9

**EQUIPMENT**

Eastern Scientific Co. .......................... 23
LabAdvance .................................... 4
Mass Vac, Inc. ................................ 2

**GENERAL**

ACS-NY/NoJ Sections ............................ 22
ACS-NY/NoJ Sections ............................ 23
Repex & Co. Inc. ............................... 22
Scientific Bindery .............................. 22

**RECRUITMENT**

ACS-NY/NoJ Sections ............................ 24

THE INDICATOR - DECEMBER 2004