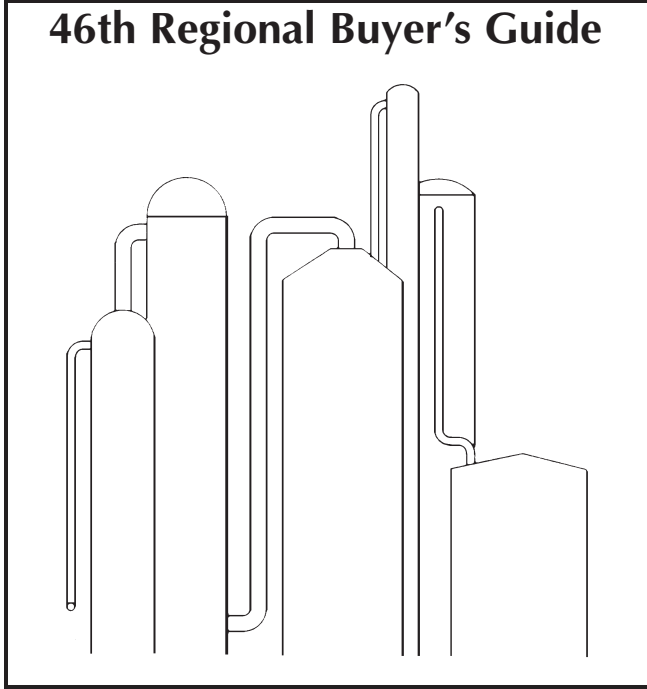


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# THE Indicator

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

## June Calendar

### NEW YORK SECTION

Thursday, June 7, 2007

Chemical Marketing & Economics Group  
See page 10.

### NORTH JERSEY SECTION

Thursday, June 7, 2007

Careers in Transition  
See page 16.

Tuesday, June 12, 2007

ChemTAG  
See page 16.

**Deadline for items to be included in the September 2007 issue of *The Indicator* is July 14, 2007.**

### 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?

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### JUNE HISTORICAL EVENTS IN CHEMISTRY

by Leopold May

The Catholic University of America, Washington, DC

**June 2, 1857**

One hundred and fifty years ago, Edward Elgar, an amateur chemist-composer; was born on this date. He invented a hydrogen sulfide generator.

**June 3, 1960**

Robert B. Woodward synthesized chlorophyll on this date.

**June 4, 1886**

On this date, Henri Moissan isolated fluorine by electrolysis of solution of  $\text{KHF}_2$  in anhydrous HF.

**June 7, 1811**

James Y. Simpson, an obstetrician who was first to use chloroform as an anesthetic and introduced the use of ether in Great Britain, was born on this date.

**June 8, 1918**

John D. Roberts, who was born on this date, did research on molecular orbital calculations and the application of nuclear magnetic resonance to organic chemistry.

**June 12, 1892**

Howell N. Furman was an analytical chemist who a researcher on analytical separation of uranium. He was born on this date.

**June 15, 1870**

Charles Baskerville developed processes for refining and hydrogenation of oils, plastic compositions, and reinforced lead. He was a researcher in anesthetic chemistry and was born on this date.

**June 16, 1869**

Henry E. Roscoe announced isolation of metallic vanadium on this date.

**June 17, 1832**

One hundred and seventy-five years ago, William Crookes, discovered thallium, 1861; separated uranium into two parts, naming the new one, uranium-X.

**June 18, 1932**

Seventy-five years ago, Dudley R. Herschbach was born on this date. He developed molecular beams to study products of collisions that occur and shared the Nobel Prize in Chemistry in 1986 with Yuan T. Lee and John C. Polanyi for their contributions concerning the dynamics of chemical elementary processes.

**June 19, 1910**

Paul J. Flory, a researcher in physical chemistry of macromolecules, was born on this date. In 1974, he received the Nobel Prize in Chemistry for his fundamental achievements, both theoretical and experimental, in the physical chemistry of the macromolecules.

**June 21, 1932**

Lockheed was incorporated on this date.

**June 24, 1835**

Johannes Wislicenus who proposed geometric isomers and synthesized acetoacetic esters, was born on this date.

**June 25, 1957**

Fifty years ago, Syntex Corporation was incorporated.

**June 26, 1907**

One hundred years ago, Wilhelm Ostwald converted ammonia to nitric acid using platinum catalyst.

**June 29, 1833**

Peter Waage who with Cato M. Guldberg formulated Law of Mass Action, was born on this date.

## COUNCILOR TALKING POINTS — SUMMARY OF GOVERNANCE ACTIONS/REPORTS

AMERICAN CHEMICAL SOCIETY  
233rd ACS NATIONAL MEETING  
CHICAGO, IL  
MARCH 25-29, 2007

The following summary is provided to help councilors report to their local sections and divisions on key actions of the ACS Council and Board of Directors at the 2007 spring national meeting.

### ACTIONS OF THE COUNCIL

#### Election Results

- The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2008: Pat N. Confalone, Thomas H. Lane, William A. Nugent, and Howard M. Peters. By written ballot the Council selected Thomas H. Lane and Howard M. Peters as candidates for 2008 President-Elect. These two candidates will stand for election in the Fall National Election.
- The Committee on Nominations and Elections announced the results of the election to select candidates from the list of nominees to represent District II and District IV on the Board of Directors for the term 2008-2010. Nominees for District II included: Robin J. Hood, Joseph R. Peterson, Diane Grob Schmidt, and Steven W. Yates. Nominees for District IV included Paul F. Barbara, Eric C. Bigham, John P. Fackler, Jr., and Gregory H. Robinson. By mail ballot the councilors from these districts selected Joseph R. Peterson and Diane Grob Schmidt as District II candidates; and as District IV candidates, Eric C. Bigham and Gregory H. Robinson. Ballots will be mailed on or before October 10 to all members in District II and District IV for election of a Director from each District.

#### Candidates for Directors-at-Large

- The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for a 2008-2010 term: Janan M. Hayes, Helen A. Lawlor, Kent J. Voorhees, and Frankie K. Wood-Black. The election of two Directors-at-Large will be conducted in the fall. Ballots will be mailed to the Council on or before October 10.

#### Committee Performance Reviews

- As part of a regular review, the Council VOTED to continue the Committee on Science, the Women Chemists Committee, and the Younger Chemists Committee - subject to concurrence by the Board of Directors. The Committee on Science provides an organizational framework to facilitate policy formulation, actions, and planning in several areas of ACS activity directly related to the science of chemistry. The Women Chemists Committee was established to recognize women chemists and to encourage them to take an active interest in Society activities; and the Younger Chemists Committee facilitates communication of ideas and attitudes between the governing bodies of the Society and younger chemists.

#### Petitions

(For Action)

- The Council received three amendments to the ACS Bylaws (Petitions) for action: the Petition on Election Procedures 2006, the Petition on Rules for Nominating Members of N&E for National Offices, and the Petition on Multi-Year Dues.
- The Council VOTED to split consideration and action on the Petition on Election Procedures 2006 into two parts: Part 1 changes the timing of run-off elections and specifies an election process for situations in which only one Director-at-Large position is open.

Part 2 addresses consistency in national election procedures. It proposes changes to standardize the petition and election processes for President-Elect and all Director posi-

tions based on percentages of voting members. It replaces language specifying a required absolute number of petition signatures for nomination of candidates for President-Elect, and Director-at-Large with language specifying a higher requirement for petition signatures as a percentage of the membership for nomination of candidates for these offices.

The Council VOTED to accept Part 1. For Part 2, the Council VOTED to recommit this petition back to the Committee on Nominations and Elections and ask that they reconsider the signature requirements, procedures for processing electronic signatures, and those suggestions arising from the Governance Review Task Force pertinent to election procedures.

- The Petition on Rules for Nominating Members of N&E for National Offices establishes a one-year waiting period following service on the Committee on Nominations and Elections before an individual can be nominated for District Director, President-Elect or Director-at-Large. The Council VOTED by recorded vote to defeat this petition.
- The Council VOTED to accept the Petition on Multi-Year Dues. This petition will allow members paying full dues without any of the discounts to pay for periods of two or three years if they wish, at a rate equal to two or three times the rate for a one year period. Council also VOTED to make this petition effective when technical components are instituted to offer and track the payments, but no later than January 1, 2010.
- The Board of Directors will vote within 90 days on whether to ratify the approved petitions. (For Consideration)

- The Council received one petition for consideration: the Petition on Local Section Affiliations. The petition addresses a difference in current Society bylaws regarding the responsibilities of the Committee on Local Section Activities (LSAC) and the Committee on Divisional Activities (DAC) in oversight of the establishment of affiliations by local sections and divisions, respectively. The petition grants responsibilities for LSAC parallel to those currently established for DAC. Action is expected on the petition at the fall national meeting.

#### 2008 Member Dues

- The Council VOTED to set the member dues for 2008 at the fully escalated rate of \$136. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

#### The Society's Finances

- The Society ended 2006 with a net contribution from operations of \$12.2 million, on revenues of \$424.0 million and expenses of \$411.9 million, which was \$7.8 million favorable to the approved budget. The favorable variance was primarily attributable to higher-than-budgeted electronic services revenue and investment income, as well as expense savings from lower-than-budgeted health care costs and reduced IT spending. In addition, the Society ended 2006 in full compliance with the Board-established financial guidelines.

#### Registration Report

- As of March 27, 2007, the ACS fall national meeting had attracted 14,520 registrants as follows: Regular attendees 7,152; Students 5,059; Exhibitors 1,283; Exposition only 573; and Guests 453.

#### Future National Meetings

- The Council VOTED to approve dates and sites for 2017 national meetings as follows: April 2-6, San Francisco, California; and September 10-14, St. Louis, Missouri.

#### New Local Section

- The Council VOTED to establish the Snake River Local Section with headquarters in Boise, ID. This brings the total number of local sections to 190.

(continued on page 8)

## COUNCILOR TALKING POINTS

(continued from page 7)

### Member Statistics

- ACS closed 2006 with 160,491 members, the highest year-end membership since 2002. Of the 17,857 applications processed in 2006, more than 1,000 came from the Member-Get-A-Member campaign, in which many councilors participated.

### Governance Review

- The Council received a report on the recent activities of the Governance Review Task Force. Councilors were informed that since the last Council meeting, the task force has met twice and action teams have been actively addressing those areas under the "Advance" category. Councilors also learned that the Council Policy Committee and the Board of Directors VOTED, as recommended by the Governance Review Task Force, to accept four recommendations under the "Refine" category.

### Chemical Professional's Code of Conduct

- The Council VOTED to approve the Chemical Professional's Code of Conduct as submitted by the Committee on Economic and Professional Affairs. This document offers guidance for Society members in various professional dealings, especially those involving conflicts of interest.

### Resolutions

- The Council adopted resolutions in memory of deceased councilors and ACS Past Presidents Robert Parry (1982), and Fred Basolo (1983).

## ACTIONS OF THE BOARD OF DIRECTORS

### The Board's Standing Committees

- The Board of Directors received a report on the screened list of candidates from the Committee on Grants and Awards for the 2008 Priestley Medal and the Volunteer Service Award. The Board will announce the winners of these two awards after its June meeting. The Board also VOTED to approve a new award: the ACS Award for Affordable Green Chemistry, and an endowment to support the award sponsored by the Rohm and Haas Company. The Committee on Grants and Award concluded its report with an update from the PRF Steering Committee.
- The Board received a report on the activities of the Committee on Public Affairs and Public Relations where they were informed of its actions at this meeting and recent governance advocacy activities since the committee's last meeting in December.

### Activities of the Board's Task Forces and Working Groups

- The Board of Directors received status reports from several of its task forces and working groups namely: the Governance Review Task Force, the International Strategy Advisory Group, Percy Julian Task Force, the Board Oversight Group on Leadership Development, the working group on 2007 Board Goals and the working group charged with planning the Board's retreat. The Board VOTED, on the recommendation of the Governance Review Task Force, to accept four recommendations under the "Refine" category. The Board also expressed its appreciation to the Percy Julian Task Force for its outstanding work and presented its members with plaques of the US House of Representative Resolution (February 2007) honoring the life and contributions of Dr. Julian.

### Recognition of Chemical Society Milestone Anniversaries

- The Board approved resolutions recognizing the 100th anniversary of the Hungarian Chemical Society and the 150th anniversary of the French Chemical Society. The French Chemical Society's anniversary will be celebrated in connection with its national meeting and the "C6" meeting, a summit of six large international chemical societies, in July. The Hungarian Chemical Society will celebrate its anniversary in June.

### The Review and Approval of Two Policies

- The Board reviewed and approved a statement on scholarship as presented by the Committee on Education, and a series of policies for the acceptance of gifts as supported by the Task Force on Development Activities.

### Compensation of Society Staff

- On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions relative to compensation for the Society's executive staff. The compensation of the Society's executive staff receives regular review from the Board.

### The Executive Director/CEO Report

- The Executive Director/CEO led a discussion on challenges facing the ACS, 2007-2011, including demographic/disciplinary, international, workforce readiness & science competitiveness, knowledge transfer and governance reform, and on priority recommendations for addressing those challenges. She also, along with several of her direct reports, updated the Board on the following issues: the impact of evolving information and communication technologies and trends on the Society, the Web Presence initiative, the ACS Green Chemistry Institute, and the activities of Chemical Abstracts Service, the Publications Division, and the Society's General Counsel.



Bettyann Howson (North Jersey Section) presented Guided Inquiry: Using models and animations to teach intermolecular forces at the Spring ACS Meeting in Chicago.



## Education

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## New York Meetings

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

### CHEMICAL MARKETING & ECONOMICS GROUP

Nanotechnology: Markets and Products for Structured Nano Products (Fullerenes and Nanotubes)

Speaker: Dr. Viktor Vejins  
CEO, Nano-C, Inc.  
Westwood, MA

Date: Thursday, June 7, 2007

Times: Cocktails 11:30 AM  
Luncheon 12 noon  
Presentation 1:15-2:00 PM

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

Cost: \$40 for Members who reserve by Tuesday, June 5 (12 noon).  
\$55 for Guests and Members (at door without reservations)

RSVP: Call Vista Marketing at (917) 684-1659 or via E-mail to [cmegroup@yahoo.com](mailto:cmegroup@yahoo.com). You can also pay via credit card from our website, <http://www.nyacs-cme.org/>



### HUDSON-BERGEN CHEMICAL SOCIETY 9TH UNDERGRADUATE RESEARCH SYMPOSIUM, APRIL 2007

The meeting was a Hudson-Bergen Award night for outstanding graduating seniors, who received a Biochemistry Book from John Wiley as well as a certificate. This was the 9th Annual Undergraduate Symposium presented by the Hudson-Bergen Chemical Society. Students presenting papers also received a book.



The group photo includes some student presenters (all from Fairleigh Dickinson University). Left to right: Merrick Morris, Sudeep Banjade, Prasanna Ramachandran, Prashanthi Natarajan, Mihaela Leonida (research mentor and organizer), Rekha Nair, Mukta Patel, and Shedly Jean-Lys.



Students gather in lobby.



2001 (L-R): Ravneet Nagi, Prof. Rob Mentore (Ramapo), Prof. Arthur Felix (Ramapo), and Angie Aggrey.



2004 (L-R): Prof. Mihaela Leonida (FDU), Sorin Diaconescu (Speaker on Forensic Toxicology), and Prof. Hanae Huarie (NJCU).

## CANDIDATES FOR THE NEW YORK SECTION 2007 ELECTIONS

At the January General Meeting and Section-wide Conference, the Nominating Committee presented the following candidates for the New York Section 2007 elections. ACS, New York Section members will receive a ballot in April. The ballot must be returned by May 31, 2007. If a ballot is not received by May 12th, please contact the New York Section Office at 516-883-7510 or [njesper1@optonline.net](mailto:njesper1@optonline.net). The Section extends a sincere thank you to the following candidates for accepting the nomination to run for office.

### Chair-elect for 2008

Barbara R. Hillery  
Robert P. Nolan

### Treasurer for 2008-2009

Stephen Z. Goldberg  
Elise G. Megehee

### Directors-at-Large for 2008

Mary Cowman  
Sharon I. Lall-Ramnarine  
Margaret Mandziuk  
Joseph Sencen  
Hessy L. Taft

### Councilors for 2008-2010

Richard D. Cassetta  
Jean D. Delfiner  
Ronald P. D'Amelia  
Richard M. Goodman  
Pamela K. Kerrigan  
Vijaya L. Korlipara  
Frank R. Romano  
Ralph Stephani

## Call For Nominations

### THE ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2007

Each year the New York Section presents the **Outstanding Service Award** to a most deserving member of the section. Many members of the New York Section provide their time, leadership talent, and educational skills to the New York Section. The tradition of excellence of the New York Section is directly attributable to the cumulative effect of these individuals. Please help us to recognize the efforts of our colleagues by nominating them for this award. Nominations will be reviewed by a committee consisting of the previous five winners of the award. The Outstanding Service Award for 2007 will be presented at the New York Section's Section-wide Conference in January 2008.

Nominations with supporting data should be mailed to Mrs. Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701 or Mrs. Jean D. Delfiner at 207 Lincoln Place, Eastchester, NY 10709. Nominations should describe in detail the contributions of the member. A Seconding nomination letter is highly recommended.

For more information about the award along with a list of former award recipients, please visit the New York Section website at [www.NewYorkACS.org](http://www.NewYorkACS.org).

Nominations should be forwarded to Mrs. Laredo-Liddell or Mrs. Delfiner by **June 30, 2007**.

### THE WILLIAM H. NICHOLS MEDAL AWARD for 2008

The ACS New York Section is accepting nominations for the William H. Nichols Medal Award for the year 2008. This distinguished award, established in 1902 by Dr. William H.




Nichols, for the purpose of encouraging original research in chemistry, is the first award authorized by the American Chemical Society. It is presented annually in recognition of an outstanding contribution in the field of chemistry, and consists of a gold medal, a bronze replica and \$5000. The medals are presented at the William H. Nichols Meeting that consists of a Distinguished Symposium related to the medalist's field of expertise and a Medal

Award dinner.

Investigators who have published a significant and original contribution in any field of chemistry during the five calendar years preceding the presentation meeting are eligible for consideration by the Nichols Medal Jury.

The nomination forms may be obtained from: The American Chemical Society's, New York Section, Inc., Department of Chemistry, St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439. The request may be faxed to the New York Section Office at 516-883-4003 or e-mailed to [njesper1@optonline.net](mailto:njesper1@optonline.net). Nomination forms and a list of past recipients can be obtained also from the New York Section website at <http://www.NewYorkACS.org>.

Six copies of the nominating materials and the official nomination form should be sent to the above mail address. Nominations must be received by **May 31, 2007**. The Nichols Medal Award Jury will meet in June to select the Nichols Medalist for 2008.



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ANALYSIS FOR THE CHEMICAL ELEMENTS

**THE 2007 WILLIAM H. NICHOLS MEDAL AWARD AND DISTINGUISHED SYMPOSIUM — EPILOGUE AND PHOTO GALLERY**

The 2007 William H. Nichols Medal was awarded to Prof. Nicholas J. Turro, who spoke on: "Photons, Electrons, Spins and Supramolecular Chemistry: New Tools for Unraveling Chemical Complexity."

The 2007 William H. Nichols Medal was presented to Professor Nicholas J. Turro of Columbia University by the ACS New York Section, at the Crowne Plaza Hotel, White Plains, NY on Friday March 16, 2007. This was the 101st Nichols Medal to be presented for distinguished research in chemistry. The gold medal was accompanied by a bronze replica and \$5000.

Professor Turro received the Nichols Medal for **Pioneering Research on the Photochemistry of Organic Molecules and Supramolecular Systems**. Professor Turro has made a major impact in the education of recent generations of physical organic chemists and photochemists both nationally and internationally.



Medalist Professor Nicholas J. Turro presents an excellent acceptance address to many attendees from colleges and industry as well as many former students.



At the Distinguished Symposium: ACS President Dr. Catherine (Katie) T. Hunt, NY ACS Chair-elect Prof. Marc Walters (New York University), Prof. Harry B. Gray (California Institute of Technology), Prof. Jacqueline K. Barton (California Institute of Technology), Medalist Prof. Nicholas J. Turro (Columbia University), Prof. Ronald Breslow (Columbia University) and NY ACS Chair Mrs. Joan A. Laredo-Liddell.



At the Reception Get Together: Introducer Prof. Ged Parkin (Columbia University) Prof. Ron Breslow, Dr. Catherine Hunt, Medalist Nicholas J. Turro, Chair Mrs. Joan A. Laredo-Liddell, Mr. David Nichols, Prof. Jacqueline K. Barton, Prof. Harry B. Gray and Nichols Foundation President Mr. C. Walter Nichols III.



Symposium Speakers, Professors Ron Breslow, Jacqueline K. Barton and Harry B. Gray with Nichols Medalist Professor Nicholas J. Turro before the Medal Award Banquet.

Medal Award: Professor Nicholas J. Turro receives the 101st William H. Nichols Medal from Chair Mrs. Joan A. Laredo-Liddell as Mr. David Nichols cheers him on.



Many of Professor Turro's former students celebrated with him, his wife Sandy, and Professors Barton and Gray.



Professor Ged Parkin presented a very interesting and enjoyable introduction of Professor Turro using a fantastic powerpoint presentation of photos and video from Prof. Turro's past.



## North Jersey Meetings

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### 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, June 7, 2007**, 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.



### ChemTAG MEETING

#### The Chemistry of Foods

**Speakers:** Professors Richard Ludescher and Mukund Karwe.

**Date:** Tuesday, June 12, 2007

**Times:** 4:00-7:00

**Place:** School of Environmental and Biological Sciences (formerly Food Science Department)  
Cook College

Send \$10 (check made to NJACS-TA) to reserve your seat and dinner to: Bobbi Gorman, 6 Woodhill St., Somerset, NJ, 08873.

For more information contact Bobbi at [rosellerams@yahoo.com](mailto:rosellerams@yahoo.com)

### NMR TOPICAL GROUP

There will not be any meeting for the months of June, July, and August.

Our next meeting will be held on **Wednesday, September 19, 2007**

#### Unsymmetrical Indirect Covariance NMR

**Speaker:** Dr. Gary Martin  
Distinguished Fellow  
Rapid Structure Characterization Laboratory  
Pharmaceutical Sciences -  
Chemical & Physical Sciences  
Schering-Plough Corporation  
Summit, NJ

Gary received a B.S. Pharmacy from the University of Pittsburgh in 1972 and a Ph.D. in 1975 from the University of Kentucky in the combined areas of solid-phase synthesis and NMR studies of reaction mechanisms. He was a Professor at the University of Houston from 1975-1989, leaving there to assume responsibility for NMR spectroscopy with Burroughs Wellcome, Co. in the US from 1989-1995. From 1996 through early 2006, he headed a group at Upjohn/Pharmacia/Pfizer responsible for the isolation and structural characterization of impurities and degradation products or pharmaceuticals. In March 2006, he joined Chemical & Physical Sciences at Schering-Plough's, Summit, NJ facility where he continues to work on the characterization of impurities and degradation products of pharmaceuticals and the development of new NMR methods and applications.

#### Door Prizes!

**Date:** Wednesday, September 19, 2007

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

**Place:** Woodbridge Hilton  
Iselin, NJ  
(Directions: [http://njacs.org/d\\_woodhilt.html](http://njacs.org/d_woodhilt.html))

**Cost:** Dinner \$30  
(\$10 for student/postdoc)  
No charge for seminar only.

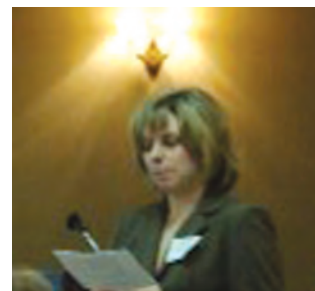
Register online: <http://njacs.org/nmr.html>, or via e-mail to

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### SCENES FROM THE NORTH JERSEY CHROMATOGRAPHY GROUP MARCH 2007 MEETING



Dr. Uwe Neue is presenting at NJCG March '07 meeting.



Chair - M. Neverovitch is addressing the audience.



Dr. Mark Bolgar is presenting at NJCG March '07 meeting.

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## Others

### CHEMISTRY OLYMPIAD

Each year the ACS uses a multi-tiered program to locate four best high school chemistry students in the United States, with a goal of entering them into competition in the International Chemistry Olympiad (ICHO). This year the ICHO will be in Moscow, Russia on July 15-24.

A total of 127 high school students were nominated by their teachers in the North Jersey Section, and given a first level screening test at Fairleigh Dickinson University (Florham) on March 30, 2007. Eleven students qualified to go on to a second screening. These students, along with their teachers and schools, are listed below:

Student	Teacher & School
Kenneth Chu	Paul Kimmel East Brunswick HS
Yuxin Xie	Paul Kimmel East Brunswick HS
Ben Yang	David Ostfeld Bergen Academies
Rachel Chasin	David Ostfeld Bergen Academies
Brian Lee	David Ostfeld Bergen Academies
Ziran Xiao	Theresa Loboda Livingston HS
Sakul Ratanalert	Theresa Loboda Livingston HS
Eric Liu	Michael Amendola Watchung Hills Regional HS
Hashim Chaudhry	Michael Amendola Watchung Hills Regional HS
Wenzong Zhau	Edward Potosnak Bridgewater-Raritan HS
Alex Morrison	Walter Crum Oratory Prep

The second level lasts about 6 hours and will have been given at FDU (Florham) on April 28.

### MARGARET WU RECEIVES INDUSTRIAL CHEMISTRY AWARD FROM NATIONAL ACS

Motor oil is an essential chemical product that most people think about only every few thousand miles when it's time for an oil change. But thanks to chemists like Margaret M. Wu, who think about oil all the time, lubricant products have continued to improve over the years to meet the performance needs of our new cars.

Wu, a senior scientific adviser at ExxonMobil Research & Engineering, in Annandale, N.J., has been recognized as a top industrial chemist for her "creative and outstanding research contributions leading to breakthrough synthetic lubricant products of considerable commercial and environmental importance."

In addition to synthetic lubricants, Wu's research has contributed significantly to technology in areas as diverse as polymer synthesis, homogeneous and heterogeneous catalysis, and zeolite chemistry. "The knowledge and exposure to science in different areas early in my career has provided me a fertile ground for developing synergies and novel solutions that would not have been obvious if I had focused only in one area," she says.

For instance, in the early 1980s, Wu did pioneering work to produce ethylene from methanol in high yields by using proprietary zeolite catalysts. But her major discovery came a few years later when she took advantage of her experience to develop a new class of synthetic oil hydrocarbon base stocks. These antiwear fluids are used in the Mobil1 with SuperSyn brand of synthetic automotive engine oil and other products. They help improve engine oil life, reduce engine wear, and improve fuel economy.

"Margaret has essentially revolutionized how automobile and industrial lubricants are designed and synthesized," notes colleague Hsueh-Chia Chang, a chemical engineering professor at the University of Notre Dame, in Indiana. "By using combinatorial high-throughput testing and molecular-level insight, she can judiciously select the

plethora of additives and functional groups needed to tailor lubricants for different operating conditions. She designs lubricants like molecular biologists design new anticancer drugs."

She also was a key participant in the team effort to bring this important family of products to successful commercialization. The fluids are now present in a host of ExxonMobil products, including lubricants for new low-emission automobiles and for various types of industrial machinery.

Wu, 56, was born and raised in Taiwan. She received a B.S. degree in chemical engineering from Taipei Institute of Technology in 1970. She then traveled to the U.S. for graduate studies and received a Ph.D. in physical organic chemistry from the University of Rochester in 1976. After a short stint as a process chemist with American Cyanamid, Wu joined Mobil's Petrochemicals Division in Edison, N.J., in 1978. In 2002, she became the first woman to be named to the prestigious rank of senior scientific adviser at ExxonMobil. In

addition to many internal company awards, she received the Thomas Alva Edison Award in 2005 from the New Jersey R&D Council for her accomplishments.

"I find the work of an industrial chemist to be important and rewarding, because I can see the fruits of my labors," Wu observes. "Whether it's a product on the shelf or a process to produce something useful, I know it's improving the quality of life for many people in my own community and around the world." She adds that industrial chemists have evolved from working nearly alone in the lab to working as part of a team of scientists from different areas to bring products to the market in a fast-changing and competitive business environment. "That's always refreshing and exciting," she says.

The award was presented at the 2007 ACS national meeting in Chicago.

Adapted from *Chemical & Engineering News* with permission.



Margaret Wu (center) received the Industrial Chemistry Award from ACS President Catherine Hunt (right) and the Division of Business Development and Management Chair Janet Bryant (left) at the ACS Spring National meeting.

## ANNUAL INDICATOR BUYER'S GUIDE

Your Buyers Guide Listing is free! If you are not listed in this year's Guide, please contact Vince Gale at (781) 837-0424, Fax (781) 837-8792, e-mail: vincegale@mboservices.net. The purpose of the Guide is to provide a ready reference of companies providing products and services that are of interest to our American Chemical Society members. Our members will use this guide as a way of finding vendors who can service their needs when they are trying to solve a problem, need equipment, restock inventory, or require consultant services, and they will keep this reference until the next one is published.

This directory will be given to our 12,000 members for their use. This issue has excellent advertising value because it is kept and referenced for the full year. For key numbers, see "Products and Services Directory" on page 25. If you wish to be in next year's Guide, please contact Vince Gale as noted above.

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174A, 174B

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12C, 12H

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172, 173, 178

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74B, 75, 80, 81

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3, 5, 7, 9, 11A, 12B

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mas@particletesting.com  
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3815 Lancaster Pike  
Wilmington, DE 19805  
(302)998-1184 (voice)  
(302)998-1836 (fax)  
micronanalytical.com  
micronanalytical@compuserve.com  
69, 80B, 88, 89, 91

**Milestone, Inc.**  
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Shelton, CT 06484  
(203)925-4240 (voice)  
(203)925-4241 (fax)  
www.milestonesci.com  
vaj@milestonesci.com  
3A, 3B, 3C, 3D, 3E, 106, 109,  
119A, 146

**NDE Analytical**  
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12C, 69, 75, 80, 80B, 145

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**Organomed Corporation**  
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(401)826-7315 (fax)  
www.organomed.com  
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Devens, MA 01434  
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www.pcisynthesis.com  
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Gary Yanik  
President & CEO  
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dave.wolff@protonenergy.com  
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74B, 75, 77, 80, 80B, 90, 145,  
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**3A-Microwave Extractor**  
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Milestone, Inc.

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Milestone, Inc.

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Milestone, Inc.

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Milestone, Inc.

**4-Molecular weight analyzers**  
Brookhaven Instruments Corp.

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GOW-MAC Instrument Co.  
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**6A-Particle size**  
Brookhaven Instruments Corp.

**7-pH Meters & indicators**  
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**8-Polarimeters**  
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Rudolph Instruments

**9-Refractometers**  
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Mettler-Toledo, Inc.  
Rudolph Instruments

**11A-Titration**  
Mettler-Toledo, Inc.

**12-Viscometers**  
AMETEK Test & Calibration Inst  
ATS RheoSystems

**12A-Water test kits**  
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**12B-Weighing balances & scales**  
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**12BA-Zeta potential**  
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**12F-TLC**  
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### 12H-NMR Spectroscopy

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**13-Biochemicals**  
Cambridge Isotope Laboratories

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BioPro International Inc.  
Scientific Asset Management

**17-Microbiology**  
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**18-Bio-analyses by HPLC**  
Bruker Daltonics Inc.  
XenoBiotic Laboratories, Inc.

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Novatia LLC  
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Chemir Analytical Services  
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Schwarzkopf Microanalytical  
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**21-Data processing**  
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Complete Analysis Laboratories  
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**22-Precious metal assay**  
Galbraith Laboratories, Inc.  
Schwarzkopf Microanalytical

**23-Testing laboratory**  
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Boston Analytical Inc.  
Chemir Analytical Services  
Desert Analytics  
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Plasticscience LLC  
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PCI Synthesis  
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Sarchem Laboratories, Inc.

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Cambridge Isotope  
Laboratories

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Cambridge Isotope  
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TCI America

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### 37-Reagents

Eastern Chemical Corporation  
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### 38-Research Chemicals

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Waters Corporation

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Galbraith Laboratories, Inc.  
Huffman Laboratories, Inc.  
Libra Technical Center, LLC  
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Bruker Daltonics Inc.  
Chemir Analytical Services  
IQsynthesis  
Spectral Data Services  
Wilmad/Lab Glass
- 74-Organic chemistry**  
Galbraith Laboratories, Inc.  
IQsynthesis
- 74B-Pharmaceutical analysis**  
Chemir Analytical Services  
Galbraith Laboratories, Inc.  
Libra Technical Center, LLC  
Schwarzkopf Microanalytical  
XenoBiotic Laboratories, Inc.
- 75-Polymers**  
Chemir Analytical Services  
NDE Analytical  
Schwarzkopf Microanalytical
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Chemical Consultants Network  
IQsynthesis  
Libra Technical Center, LLC  
Schwarzkopf Microanalytical  
Utility Development Corp.  
XenoBiotic Laboratories, Inc.  
YourEncore, Inc.
- 80-Spectroscopy**  
Chemir Analytical Services  
Galbraith Laboratories, Inc.  
NDE Analytical  
Schwarzkopf Microanalytical
- 80A-Technology transfer**  
Business Development Intl.

- 80B-Testing Laboratory**  
Atlas Material Testing Technol  
Galbraith Laboratories, Inc.  
Matech Associates  
Micron Inc.  
NDE Analytical  
Schwarzkopf Microanalytical
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GOW-MAC Instrument Co.
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GOW-MAC Instrument Co.
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GOW-MAC Instrument Co.
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GOW-MAC Instrument Co.

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Micron Inc.

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Micron Inc.

### ENVIRONMENTAL ANALYSIS

- 90-Environmental analysis**  
Bruker Daltonics Inc.  
Schwarzkopf Microanalytical

### ESCA SERVICES

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Micron Inc.

### GENERAL EQUIPMENT

- 93-AA lamps**  
Hellma Cells Inc.
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Hellma Cells Inc.
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Milestone, Inc.
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Sonic & Materials  
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Hellma Cells Inc.
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- 144-Microscope accessories**  
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- 145-Organic microanalysis**  
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### ORGANIC SYNTHESIS

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### SPECTROMETERS

- 166-Emission**  
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Bruker Daltonics Inc.
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Hellma Cells Inc.

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Waters Corporation
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Headwall Photonics, Inc.

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- 177A-X-ray Crystallography**  
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