

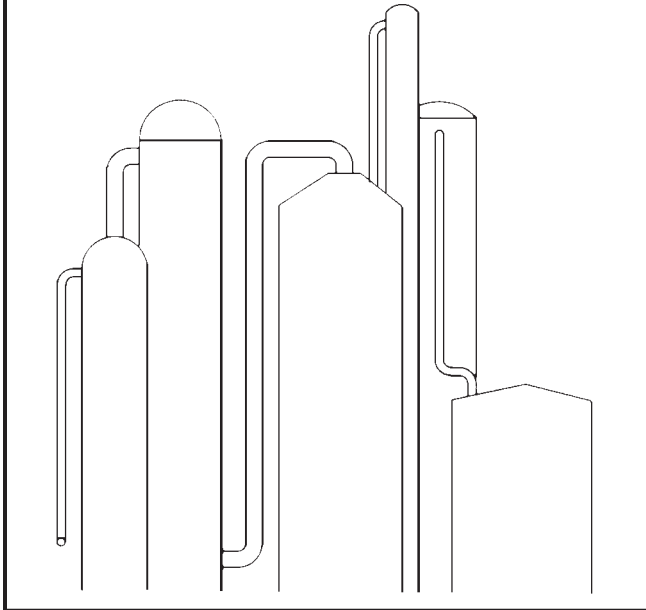
# THE Indicator

JUNE 2008

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# THE Indicator

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## June Calendar

### NEW YORK SECTION

Monday, June 2, 2008  
Long Island Subsection  
See page 9.

### NORTH JERSEY SECTION

Thursday, June 5, 2008  
Careers in Transition  
See page 15.

**Deadline for items to be included in the  
September 2008 issue of *The Indicator*  
is July 14, 2008.**



## Education



### BROOKLYN CAMPUS

#### MS PROGRAM IN CHEMISTRY FALL 2008 SCHEDULE OF COURSES

CHM 525 Instrumental Methods	Sat. 9:00 am --- 9 :50 am	4 credits
	Sat. 10:00 pm--- 3:50 pm	
CHM 631 Spectroscopy	Tue. 6:10 pm — 8:50 pm	3 credits
CHM 606 Adv. Physical Chemistry	Thurs 6:00 pm -- 8:50 pm	3 credits
CHM 621 Adv. Organic Chemistry	Wed. 6:10 pm – 8:50pm	3 credits

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## Obituary

Dr. Joan E. Shields, a colleague and very dear friend of the members of the ACS New York Section, died suddenly on April 10th. Joan's passing is a great loss to her friends and to the ACS. An extraordinary chemist and educator, Joan was dedicated to her science, her students, her colleagues - and to the organization that represented them all, the ACS.

Born in Cambridge, Massachusetts, Joan earned a B.S. degree in chemistry at Regis College, a M.S. degree in chemistry at Tufts University, and a Ph.D. in chemistry at Boston College. She was awarded a post-doctoral fellowship at the Max Planck Institute in Mulheim, Germany, where she met her future husband.



Joan joined the faculty of Long Island University, C. W. Post campus, in 1968 and became a full professor in 1974. She chaired the chemistry department at the C.W. Post Campus for 20 years before retiring in 2007. During her 40 years of teaching Dr. Shields guided many students in research projects, resulting in 34 publications and books. Joan served on a seemingly endless array of committees for the University. She was recently chosen to lead the graduation processions carrying the University Mace.

Dean Katherine Hill-Miller of the College of Liberal Arts and Sciences said, "We will all remember Joan Shields for her fierce dedication to excellence in teaching, excellence in research, and excellence in student achievement. We will also remember Joan for her complete dedication to students. She shepherded so many of them through the full cycle of their years at C.W. Post, from the time they entered our gates as freshmen, to the time they left us for medical and graduate schools." After retiring, Joan continued to work at Post, mentoring freshman and serving as chairwoman of the school's Pre-Health Professions Advisement Committee. She also was working on her fifth book.

Joan was a dedicated leader in the American Chemical Society. She gave generously, assuming numerous roles in the New York Section and National ACS. Joan chaired the Long Island Subsection in 1975 and 1976, and the New York Section in 1980. She represented the Section as a Councilor for 14 years, and was an enthusiastic member of its Committees, chairing many. Among these were the Councilor Coordinating, Bylaws, Long Range Planning, MetroChem, Nichols Jury, Outstanding Service Award and History of the New York Section Committees.

Joan was our star in National ACS, rising rapidly within its ranks. She was a member of the Board of Directors from 1989 to 1991 and 1995 to 2002 - and its Chair from 1996 to 1998, an office she so very much enjoyed. Joan led in many roles - as Chair of the Society Committee on Budget and Finance, Committee on Committees, Publications Committee and Chemical and Engineering News Editorial Board, and as a member of Local Section Activities and Chemical Education. Joan was active on Board Committees, chairing Public Affairs and Public Relations, and, Planning, and, as a member of Grants and Awards, Audits, Pensions and Investments, and Member Insurance. Joan was game for work; she wanted to make a difference! The National Chemistry Week Task Force, Task Force to Review ACS Awards Program, and Task Force on International Chemistry Celebrations benefited from her many contributions.

In recent times, Dr. Shields was a member of the Board of Directors of the Chemical Heritage Foundation and the Governing Board for Publications.

Joan truly will be missed. She set an outstanding example of hard work, dedication, friendship and caring. She was an extra-ordinary person. We will remember her always in a very special way.

## THIS MONTH IN CHEMICAL HISTORY - I

Harold Goldwhite, California State University, Los Angeles - hgoldwh@calstatela.edu

I have on the desk before me two books that, in a sense, share a subject matter. Both of them have to do with the forms of atoms. In this column and the next I will describe their very different approaches to this topic.

The first book bears the interesting title of "Occult Chemistry". The copy I own has the subtitle "A Series of Clairvoyant Observations on the Chemical Elements". The authors are Annie Besant, P.T.S., and Charles W. Leadbeater. The book is described as being reprinted from "The Theosophist" and was published by the Theosophical Publishing Society, London and Benares City in 1908.

Annie Besant was a quite remarkable woman. An early supporter of birth control, throughout her life she was a prominent feminist and social reformer. She became a socialist, was a close friend of George Bernard Shaw, and supported and wrote on the doctrines of Karl Marx. After reviewing a book by Blavatsky she met the author and was converted to theosophy, a mystical and occult philosophy which included the use of clairvoyance as a way to truth and the understanding of the physical world. After Blavatsky's death in 1891 Besant became the leading figure in the movement. She met her co-author of "Occult Chemistry", the clairvoyant Charles W. Leadbeater in 1897, and together they embarked on a wide ranging set of clairvoyant experiences including those that led to this book. Incidentally my copy was once in the library of the Los Angeles Lodge of the Theosophical Society, which still has a building in this city.

"Occult Chemistry" is fully illustrated with diagrams of the 57 elemental atoms examined by clairvoyance. The two "observers" were the authors. The samples included common salts and minerals. The authors acknowledge some assistance from Sir William Crookes who was a distinguished scientist and discoverer of the element thallium, and a believer in spiritualism. His assistance was confined to a loan of his three dimensional spiral periodic table.

The periodic table in "Occult Chemistry" has some interesting features. The atoms of the elements are composed of "sub-atoms" there being 18 of these in hydrogen and 3546 in gold. There are a number of "elements" not yet recognized by conventional chemistry. Occultum, with an atomic mass of 3, is found between hydrogen and helium. The noble gases have a secondary form, labeled as meta. Thus meta-neon has a larger atomic mass (22.33) than neon (20). All atoms exist as one of two fundamental types: positive or male, from which force comes out; and negative or female, into which force disappears.

I first encountered this amazing book, in a much later edition, in the library of the Chemistry Department of Cambridge University. I believe that the Theosophical Society of Great Britain distributed copies to each University's chemistry library in the country, perhaps in the hope of influencing the direction of future research on the structure of the atom. So far that influence has been minimal.

## THIS MONTH IN CHEMICAL HISTORY - II

Harold Goldwhite, California State University, Los Angeles - hgoldwh@calstatela.edu


This is a second column devoted to books discussing the forms of atoms. The work considered in this column is "Atomic Form with Special Reference to the Configuration of the Carbon Atom" by Edward E. Price. My copy is the second edition, published by Longmans, Green & Co. Ltd. In London in 1926. Unlike "Occult Chemistry", the subject of my last column, this is a serious work of chemical science.

It is, however, a curious book considering its publication date. The first edition, published in 1922, comments that the author had first considered his theory of atomic form more than 20 years before, that is around 1900. And the text, as published (in a second edition) in 1926 has the flavor of a late 19th. Century work.

I haven't been able to find out much about Edward E. Price. He gives his address as The Have, Dorman's Park, Surrey; there is no school or university affiliation suggested. He was elected a Fellow of the Chemical Society in February 1923, suggesting a sound chemistry background, and died in July 1931. His book focuses on his concept of the shape of the carbon atom, as an irregular tetrahedron, and he shows some knowledge of recent results on atomic structure, following the Rutherford and Bohr model of the nuclear atom plus electrons. But he has serious reservations. "We have before us a large specimen of a quartz crystal .... blasted from the rock that forms the earth's crust, where it has lain absolutely unchanged for untold ages.... If we accept the modern view of Atomic structure we are to believe that notwithstanding its extraordinary stability and geometric form, it really consists of an aggregate of spherical or ellipsoidal bodies in each of which a system of rapidly revolving electrons is eternally maintained."

A review of the first edition of Price's book by H.E. Cox in the Proceedings of the Chemical Society is scathing. "One cannot but be surprised that an author in 1922 should put forward a theory such as is propounded in this book...in view of the fact that it absolutely disregards not only current physical theories, but well-ascertained fact ... it is not likely to be favourably received or seriously considered by chemists generally." And yet it went to a second edition four years later.

It seems to me that Price is following up van't Hoff's view of the tetrahedral carbon atom disregarding, as Cox says, developments in atomic theory post-1900. The merits of the book, such as they are, include its elegant diagrams showing how to construct models of the geometric implications of the various ways in which carbon, in particular, can bond. The text vigorously endorses the proposition that chemical structure and reactivity must be considered in three-dimensional space. However Price's views on the nature of multiple bonds and rings are sadly out-of-date even for 1922 or 1926. The history of chemistry is replete with byways and deviations that cannot be ignored in a complete story. For example, in a different class, and much more noteworthy, is Wilhelm Ostwald's refusal to accept the real existence of atoms until Einstein's treatment of Brownian motion convinced him. But that's a subject for another day.



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## JUNE HISTORICAL EVENTS IN CHEMISTRY

by Leopold May, The Catholic University of America, Washington, DC 20064

### June 1, 1917

William Knowles was born on this date. In 2001, he shared Nobel Prize in Chemistry with Ryoji Noyori for their work on chirally catalysed hydrogenation reactions and K. Barry Sharpless for his work on chirally catalysed oxidation reactions.

### June 4, 1877

Heinrich O. Wieland, who was born on this date, was a researcher in organic chemistry and biochemistry. In 1927, he received the Nobel Prize in Chemistry for his investigations of the constitution of the bile acids and related substances.

### June 6, 1918

Edwin G. Krebs shared the Nobel Prize in Physiology or Medicine in 1953 with Edmond H. Fischer for their discoveries concerning reversible protein phosphorylation as a biological regulatory mechanism. He was born on this date.

### June 8, 1916

Francis H. C. Crick, who determined structure of deoxyribonucleic acid (DNA) with James D. Watson, was born on this date. In 1962, he shared the Nobel Prize in Medicine with James D. Watson and Maurice H. F. Wilkins for their discoveries concerning the molecular structure of nuclear acids and its significance for information transfer in living material

### June 11, 1885

Frederick G. Keyes, a researcher on thermodynamic properties of matter, kinetic theory, and the application of thermodynamics to equilibria, was born on this date.

### June 13, 1923

Lloyd Conover, who was born on this date, invented tetracycline.

### June 15, 1885

Auer von Welsbach announced separation of didymium into Nd & Pr on this date.

### June 17, 1860

William Perkin, Jr., synthesized terpenes and alkaloids and was born on this date.

### 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 20, 1886

James R. Partington, who was born on this date, was a historian of chemistry and did research on specific heat of gases.

### June 22, 1892

Nathaniel Howell Furman, who did research on analytical separation of uranium, was born on this date. He also wrote books on analytical chemistry.

### June 24, 1840

Emile DuClaux was a researcher on osmosis, molecular adhesion, surface tension, and fermentation. He served as Director of the Pasteur Institute from 1895 to 1904 and was born on this date.

### June 25, 1812

Hermann von Fehling discovered Fehling's solution as an oxidizing agent and as an analytical reagent for aldehydes and sugars. He determined the composition of paraldehyde and metaldehyde; and prepared phenyl cyanide. He was born on this day.

### June 26, 1824

Lord Kelvin (William Thompson), who was born on this date, established the theory and practice of thermodynamics. He also defined the scale of absolute temperature, which was named for him (Kelvin).

### June 27, 1909

Arthur Clay Cope, who did research in synthetic organic chemistry including medium-sized ring compounds, was born on this date.

### June 29, 1833

One hundred and twenty five years ago, Peter Waage, was born on this date. He and Cato M. Guldberg formulated the Law of Mass Action and presented their paper "Studier over Affiniteten" before the Norwegian Academy of Sciences and Letters in 1864.

Additional historical events may be found at Dr. May's website, <http://faculty.cua.edu/may/ChemistryCalendar.htm>.

## New York Meetings

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

### LONG ISLAND SUBSECTION

#### LI-ACS Annual High School Awards Ceremony

Awards will be presented to students receiving the highest mark in chemistry from Suffolk, Nassau and Queens high schools. A dinner is provided for each nominee and a guest (teacher, parent or guest). Additional guests may attend for \$30 per person. Dinner is followed by an Awards ceremony at which each nominee is presented with a plaque by the Chair of the Long Island Subsection of the ACS. A guest speaker will present on a timely scientific topic and there will also be a guided tour of the research laboratories and facilities of OSI.

**Date:** Monday, June 2, 2008

**Time:** 6:00 PM

**Place:** OSI Pharmaceutical Co.  
Farmingdale, NY

Contact: Ralph Stephani, to RSVP, call 718-990-5215.

Please visit the LI-ACS website at [http://www.newyorkacs.org/sub\\_island.html](http://www.newyorkacs.org/sub_island.html) for directions and other details.

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## 2008 WILLIAM H. NICHOLS MEDAL

The 2008 William H. Nichols Medal was presented to Professor Nadrian C. Seeman of New York University by the ACS New York Section, at the Crowne Plaza Hotel, White Plains, NY on Friday, March 14, 2008. This was the 102nd Nichols Medal to be presented for distinguished research in chemistry. The gold medal was accompanied by a bronze replica and \$5000.

Professor Seeman received the Nichols Medal for Founding and Establishing the Field of Structural DNA Nanotechnology.

Among the distinguished attendees at the award dinner were three generations of the Nichols family, Mr. David Nichols (great grandson of William H. Nichols), Mr. Charles Nichols and Mr. Peter Rizzo (great, great grandsons), Sandra Nash (great, great granddaughter) and Gardiner and Whitney Nash (great, great, great grandchildren); as well as Professor Bruce Bursten, 2008 President of the American Chemical Society, Professor Marc Walters, 2008 Chair of the ACS New York Section, and Chair-Elect and Symposium Organizer Professor Barbara Hillery. Many of Professor Seeman's students and colleagues celebrated this honor with him. Professor James Canary of New York University introduced his good friend Professor Seeman at the Medal Award Dinner.

The dinner was preceded by an excellent

*(continued on page 10)*

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**2008 WILLIAM H. NICHOLS MEDAL**

*(continued from page 9)*

afternoon symposium that featured as distinguished speakers: Professors Hao Yan,

Arizona State University, Chengde Mao, Purdue University, Erik Winfree, California Institute of Technology and the Nichols Medalist Professor Ned Seeman. The title of the distinguished symposium was DNA: Not Merely the Secret of Life.



Professor Nadrian Seeman



Professor Nadrian Seeman Accepting the Nichols Medal from New York Section Chair Professor Marc Walters and Mr. David Nichols.



Professor Seeman's colleagues from New York University celebrating this honor with him.



A few attendees from St. John's University. The Nichols Foundation supports the attendance of some of the students and faculty from the NY Section's colleges and universities.



ACS President Dr. Bruce Bursten, Gardiner Nash, Mrs. Sandra Nash, Whitney Nash, Medalist Nadrian Seeman and Mr. David Nichols.



Dr. Yorke Rhodes giving some important Nichols Medal information to Ms. Whitney Nash (great great granddaughter of Dr. W. R. Nichols) at the Medal Award Dinner.



Dr. Hao Yan, Dr. Chengde Mao, Dr. Erik Winfree, Dr. Bruce Bursten, Medalist; Dr. Ned Seeman, Dr. Barbara Hillery, Mr. David Nichols and Dr. Marc Walters.



Mr. Charles Nichols and Dr. Peter Rizzo (great great grandsons of Dr. W. R. Nichols) join Ms. Katie Jacks of Barnard College at the Medal Award Dinner.



Dr. G. R. Padmanabhan, Ms. Evelyn Sarnoff, Mrs. Joan Laredo-Liddell and Mr. Frank Romano stop for a chat during the coffee break.



Over 260 attendees enjoyed an excellent symposium on DNA Structural Nanotechnology.

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

**AMERICAN CHEMICAL SOCIETY  
235rd ACS NATIONAL MEETING  
NEW ORLEANS, LA  
APRIL 6-10, 2008**

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 2008 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, 2009: Thomas J. Barton, R. Stephen Berry, Joseph S. Francisco, and Josef Michl. By written ballot, the Council selected Joseph S. Francisco and Josef Michl as candidates for 2009 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 III and District VI on the Board of Directors for the term 2009-2011. Nominees for District III included: Pat N. Confalone, Alan B. Cooper, Catherine C. Fenselau, and Judith A. Summers-Gates. Nominees for District VI included Bonnie A. Charpentier, Gary D. Christian, David M. Dooley, and Dennis L. Lichtenberger. By mail ballot, the Councilors from these districts selected Pat N. Confalone and Alan B. Cooper as District III candidates; and as District VI candidates, Bonnie A. Charpentier and Dennis L. Lichtenberger. Ballots will be mailed on or before October 10 to all members in District III and District VI 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 2009-2011 term: William F. Carroll, Jr., Richard L. Deming, Thomas R. Gilbert, and Marinda Li Wu. 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.

#### **Petitions**

(For Action)

- The Council received three amendments to the ACS Bylaws (Petitions) for action: the Petition on Election Procedures for President-Elect and District Director, the Petition on Election Procedures 2006, Part 2, and the Petition on Membership Categories and Requirements.
  - o The Council VOTED to approve the Petition on Election Procedures for President Elect and District Director. This petition seeks to make the balloting procedure more uniform and to avoid the complications and expense of run-off elections.
  - o The Council engaged in a lively debate on the Petition on Election Procedures 2006, Part 2, and entertained two motions: a motion to recommit and a motion for a recorded vote. Both motions failed. The Council ultimately VOTED by a show of hands to approve the Petition on Election Procedures 2006, Part 2. This petition standardizes election processes for President-Elect and all Director positions based on percentages of voting members, and increases the number of required signatures.
  - o The Council also debated the merits of the Petition on Membership Categories and Requirements and ultimately VOTED to approve this petition via a recorded vote. This petition broadens qualifications for membership and creates a new category of student membership. The Board of Directors will vote within 90 days on whether to ratify the approved petitions. The Petition on Membership Categories and Requirements contains

changes to the ACS Constitution, and not just the Bylaws. Therefore, these changes must be approved by ACS members in the fall to be valid.

(For Consideration)

- The Council received one petition for consideration: the Petition on Society Affiliate Dues. This petition sets Society Affiliate dues equal to the (full) membership dues, and not subject to any of the discounts otherwise applicable to membership dues. Action is expected on the petition at the fall national meeting.

(Withdrawn)

- The Petition on Local Section and Division Election Procedures was withdrawn. This petition offers resolutions for handling tie votes in Councilor or Alternate Councilor elections in a local section or division.

#### **2009 Member Dues**

- The Council VOTED to set the member dues for 2009 at the fully escalated rate of \$140. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

#### **The Society's Finances**

- The Society ended 2007 with a net from operations of \$9.6 million, which was \$2.2 million favorable to the approved budget. This was based on total revenues of \$444.2 million and total expenses of \$434.6 million. The Society ended the year in full compliance with the Board established financial guidelines.

#### **Attendance Report**

- As of April 9, 2008, the ACS spring national meeting had attracted 13,302 registrants as follows: Regular attendees 6,681; Students 4,659; Exhibitors 1,156; Exposition only 374; and Guests 432.

#### **Revision of the Division Funding Formula**

- After considerable discussion, the Council VOTED to recommit the revised division funding formula, as presented by the Divisional Activities Committee, to the committee for further action at the fall national meeting.

#### **Local Section Name Change**

- The Council VOTED to change the name of the University of Kansas Local Section to the Wakarusa Valley Local Section. Although many of the section's members work for the University of Kansas, supporters said that the geographically and occupationally diverse interests of the members would be much better represented under the name Wakarusa Valley Local Section.

#### **Member Statistics**

- At the close of 2007, Society membership totaled 160,052, despite a net loss of 439 members at the end of the year. Also, 2007 recorded the second highest number of new applications – 16,533.

#### **Academic Professional Guidelines**

- The Council VOTED to approve the Academic Professional Guidelines as submitted by the Committee on Economic and Professional Affairs. These guidelines apply to those members of the academic community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry.

### **ACTIONS OF THE BOARD OF DIRECTORS**

#### **Committees Actions**

- The Board received reports from the Committees on Grants and Awards, Public Affairs and Public Relations, Professional and Member Relations, and Budget and Finance. On the recommendation of these committees, the Board took the following actions:

*(continued on page 14)*

## COUNCILOR TALKING POINTS

(continued from page 13)

- o As presented by the Committee on Grants and Awards, the Board received a report on the screened list of candidates for the 2009 Priestley Medal, Volunteer Service Award and Parsons Award. The Board agreed to announce the winners of these three awards after its June meeting.
- o On the recommendation of the Committee on Public Affairs and Public Relations, the Board VOTED to approve the tagline "Chemistry for Life" as the central theme of the Communications Strategic Plan and for use on appropriate Society materials.
- o On the recommendation of the Committee on Professional and Member Relations, the Board VOTED to adopt the ACS Diversity Partners Program – a three-year pilot program designed to broaden participation in the chemical sciences among diverse and traditionally underrepresented groups.
- o On the recommendation of the Committee on Budget and Finance, the Board VOTED to support having the Committee on Education (SOCED) pursue the US hosting of the International Chemistry Olympiad in 2012.

### Activities of the Board's Task Forces

- The Board of Directors received status reports from two of its task forces: the International Strategy Implementation Task Force, and the New Ventures Task Force. The International Strategy Implementation Task Force is charged with implementing the recently approved Society International Strategy, and the New Ventures Task Force reviews new mission-related business opportunities.
- The Board also received updates from two Society initiatives: the Web Presence Initiative and the ACS Leadership Development System (LDS). The newly re-invented ACS website launched September 30, 2007, and features a unifying global navigation and dramatically improved user experience. The LDS offers a comprehensive leadership curriculum that provides practical courses for managing one's career and tools to more effectively lead ACS volunteer initiatives.

### Strategic Mega Challenges

- The Board of Directors recently agreed to devote a significant portion of its meeting to deliberation of strategic mega challenges of importance to chemistry and the American Chemical Society. At this meeting, the Board reviewed its committee infrastructure and VOTED to amend its Regulations to reclassify all Board committees as either Standing or Special Committees. As a follow-up, the Board of Directors met with the Committee on Committees to engage in further discussions on the overall enhancement of ACS committees.
- The Board also spent considerable time deliberating the strategic mega issue – Global Scientific Challenges. In general, global scientific challenges are those areas of concern where chemistry can make a substantial contribution in improving people's lives. The Board plans to complete its discussions on this topic at the June meeting.

### 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, along with several of her direct reports, updated the Board on the following items: Policy issues for a newly revised IRS Form 990 and the activities of Chemical Abstracts Service, the Publications Division, and the Society's General Counsel.

### Joint Board/Nominations and Elections Luncheon

- Following its regular meeting, the Board of Directors, at the invitation of the Committee on Nominations and Elections, met to enhance their mutual understanding of each other's needs and processes.

## North Jersey Meetings

<http://www.njacs.org>

### 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 5, 2008**, 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 [vkuck@yahoo.com](mailto:vkuck@yahoo.com), if you plan on attending this meeting.



### CHEMISTRY OLYMPIAD

Each year, the NoJ Section assists the ACS in its search for the top 20 high school chemistry students in the U.S. From these, the best four are chosen to represent the U.S. in the International Chemistry Olympiad, held in Budapest, Hungary, on July 12-21, 2008.

The entire process begins with a screening test. Accordingly, 171 high school students from the NoJ section were nominated by their teachers, and given a 1st level screening test at FDU-Florham on March 19, 2008. From these, 15 students were qualified to go on to the 2nd level, which was scheduled for April 19. The students, teachers and high schools in the latter group are listed below:

Student	Teacher & School
David Kersen	Elizabeth Mainardi Delbarton
Timothy Barnum	Michael Amendola Watchung Hills Regional
Eric Liu	Michael Amendola Watchung Hills Regional

Heather Xu	Samuel Baskinger Parsippany
Michael Li	Theresa Farinella South Brunswick
William Pan	Theresa Farinella South Brunswick
Johanna Lee	David Ostfeld Bergen Cty. Academies
Matthew Mayers	David Ostfeld Bergen Cty. Academies
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### SCENES FROM THE NORTH JERSEY SECTION

At the National Meeting in New Orleans on Tuesday, April 8, 2008, Sr. Mary Virginia Orna received the Henry Hill Award at a reception held in her honor.

Diane Krone and Bettyann Howson gave a symposium talk at the POGIL symposium sponsored by DivCHED. Their topic was "Enhancing POGIL Activities with Online Homework."



(Left to right) Allene Johnson, Susan Fahrenholtz, Sr. Mary Virginia Orna, Joan Laredo-Liddell.

(Left to right) Diane Krone and Bettyann Howson presenting at POGIL Symposium.



Seated (left to right) Allene Johnson, Sr. Mary Virginia Orna, Diane Krone; standing (left to right) Bettyann Howson, Susan Fahrenholtz, Bill Suits.



The organizers of MARM 2008 wish to thank the many volunteers, speakers, attendees and everyone else whose support and participation made the 40<sup>th</sup> Mid-Atlantic Regional Meeting a great success!

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## Call for Nominations

### CALL FOR NOMINATIONS FOR THE ACS NEW YORK SECTION'S OUTSTANDING SERVICE AWARD FOR 2008

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 attributable directly to the cumulative effect of these individuals. Please help the New York Section 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 2008 will be presented at the New York Section's Section-wide Conference in January 2009.

Nominations with supporting data should be mailed to the OSA Committee Chair, Dr. Lesley Davenport, Department of Chemistry, Brooklyn College – CUNY, 2900 Bedford Avenue, Brooklyn, NY 11210 or emailed to [LDVNPOR@Brooklyn.cuny.edu](mailto:LDVNPOR@Brooklyn.cuny.edu).


For more information about the award along with a list of former award recipients, please visit the New York Section's website at

[http://www.newyorkacs.org/awards\\_nyacs.html](http://www.newyorkacs.org/awards_nyacs.html)

Nominations should be forwarded to Dr.

Davenport by **June 30, 2008**.

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## Others

### THE NEW YORK ACADEMY OF SCIENCES' CHEMICAL BIOLOGY DISCUSSION GROUP

#### Special Year-End Meeting

Organizer: Paramjit Arora  
New York University

#### "Exploring Chemical Space with Aptamers"

Keynote Speaker: Michael Famulok  
Universität Bonn

Student Speakers: Yu Liu  
New York University

Phil Effraim  
Columbia University

Elizabeth George Cisar  
The Rockefeller University

Justin Cisar  
Memorial Sloan-Kettering  
Cancer Center

Liz Harker  
Yale University  
Keith Baessler  
Stony Brook University

Date: **Monday, June 2, 2008**  
Time: 4:00 PM – 6:30 PM  
Place: The New York Academy of Sciences

7 World Trade Center  
250 Greenwich Street, 40th Floor  
New York, New York  
Cost: Members - Free  
Non-members - \$20 per event  
Student non-members - \$10

Space is limited. Reserve a seat on-line at: <http://www.nyas.org>

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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@mboseervices.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 27. If you wish to be in next year's Guide, please contact Vince Gale as noted above.

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- Cytotoxic and Highly Potent Compounds
- Hot and Cold Isotopic Labeling
- Analytical Support

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1-800-505-9892  
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## BUYER'S GUIDE - Company Directory

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12C

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23

### International Crystal Labs

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125

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28, 34, 38, 72, 74, 77

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(609)890-8323 (fax)  
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knfusa@knf.com  
129

### Libra Technical Center, LLC

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12C, 12D, 12G, 17, 20, 23, 24,  
25, 38, 43, 65, 68, 69, 74B, 77,  
144B

### Mallinckrodt Baker, Inc.

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infombi@mkg.com  
38

### Matech Analytics

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80B

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27A, 28, 34, 35A, 35B, 38, 146

### Mettler-Toledo, Inc.

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(614)985-8171 (fax)  
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3, 5, 7, 9, 11A, 12B

### Micromeritics Analytical Svcs

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50

### Micron Inc.

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69, 80B, 88, 89, 91

### Milestone, Inc.

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3A, 3B, 3C, 3D, 3E, 106, 109,  
119A, 146

### NDE Analytical

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(925)846-0177 (fax)  
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12C, 69, 75, 80, 80B, 145

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12D, 12H, 19, 21

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57A

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146

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www.organomed.com  
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28

### PCI Synthesis

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28

### Pdr-chiral Inc.

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8

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Waterbury, CT 06708  
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37

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102B

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179B

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65

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38

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43

### Q-Glass Co Inc.

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116

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116

### Richman Chemical, Inc.

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28

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21A, 23, 24

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8, 9, 148

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### Sarchem Laboratories, Inc.

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74B, 75, 77, 80, 80B, 90, 145,  
147

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72

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144

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12A

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35B

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46

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12C, 12D, 12E, 18, 19, 20, 65,  
74B, 77

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## BUYER'S GUIDE - Products & Services

### ANALYTICAL EQUIPMENT

#### 3-Densitometers

Cargille Laboratories  
Mettler-Toledo, Inc.

#### 3A-Microwave Extractor

Milestone, Inc.

#### 3B-Microwave Digester

Milestone, Inc.

#### 3C-Microwave Pyrolyzer

Milestone, Inc.

#### 3D-Mercury Synthesis

Milestone, Inc.

#### 3E-Mercury Analyzer

Milestone, Inc.

#### 4-Molecular weight analyzers

Brookhaven Instruments Corp.

#### 5-Moisture analyzers

GOW-MAC Instrument Co.

Mettler-Toledo, Inc.

#### 6A-Particle size

Brookhaven Instruments Corp.

#### 7-pH Meters & indicators

Mettler-Toledo, Inc.

#### 8-Polarimeters

Pdr-chiral Inc.

Rudolph Instruments

#### 9-Refractometers

Cargille Laboratories

Mettler-Toledo, Inc.

Rudolph Instruments

#### 11A-Titration

Mettler-Toledo, Inc.

#### 12-Viscometers

AMETEK Test & Calibration Inst

ATS RheoSystems

#### 12A-Water test kits

Taylor Technologies Inc.

#### 12B-Weighing balances & scales

Mettler-Toledo, Inc.

#### 12BA-Zeta potential

Brookhaven Instruments Corp.

### ANALYTICAL SERVICES

#### 12C-HPLC

Ast Scientific, LLC

Chemir Analytical Services

Galbraith Laboratories, Inc.

IBC Labs

Libra Technical Center, LLC

NDE Analytical

XenoBiotic Laboratories, Inc.

#### 12D-Mass Spectrometry

Bruker Daltonics Inc.

Chemir Analytical Services

Galbraith Laboratories, Inc.

Libra Technical Center, LLC

Novatia LLC

XenoBiotic Laboratories, Inc.

#### 12E-Radio Chromatography

XenoBiotic Laboratories, Inc.

#### 12F-TLC

Chemir Analytical Services

Galbraith Laboratories, Inc.

#### 12G-UV-Visible Spectroscopy

Galbraith Laboratories, Inc.

Libra Technical Center, LLC

pION Inc.

Schwarzkopf Microanalytical

#### 12H-NMR Spectroscopy

Ast Scientific, LLC

Custom NMR Service

Novatia LLC

### BIOTECHNOLOGY

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Cambridge Isotope Laboratories

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BioPro International Inc.

Scientific Asset Management

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Libra Technical Center, LLC

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#### LC/MS

Novatia LLC  
XenoBiotic Laboratories, Inc.

### 20-Certificates of analysis

Chemir Analytical Services  
Galbraith Laboratories, Inc.  
Libra Technical Center, LLC  
Schwarzkopf Microanalytical  
XenoBiotic Laboratories, Inc.

### 21-Data processing

Novatia LLC

### 21A-Elemental Microanalysis

Complete Analysis Laboratories  
Galbraith Laboratories, Inc.  
Robertson Microlit Labs.  
Schwarzkopf Microanalytical

### 22-Precious metal assay

Galbraith Laboratories, Inc.  
Schwarzkopf Microanalytical

### 23-Testing Laboratory

Alliance Technologies, LLC  
Boston Analytical Inc.  
Chemir Analytical Services  
Desert Analytics  
Galbraith Laboratories, Inc.  
Impact Analytical, Div. of M.M.I  
Libra Technical Center, LLC  
Plastiscience LLC  
Robertson Microlit Labs.  
Schwarzkopf Microanalytical

### 24-Trace element analysis

Galbraith Laboratories, Inc.  
Huffman Laboratories, Inc.  
Libra Technical Center, LLC  
Robertson Microlit Labs.  
Schwarzkopf Microanalytical  
VHG Labs

### 25-Thermal analysis

Libra Technical Center, LLC  
Setaram Inc.

## CHEMICALS

### 25A-Amino acids

Cambridge Isotope Laboratories

### 27A-Chiral & custom chemicals

Matrix Scientific

### 28-Custom synthesis

Bedoukian Research  
Cambridge Isotope Laboratories  
IQsynthesis  
Matrix Scientific  
Organomed Corporation

PCI Synthesis  
Richman Chemical, Inc.  
Sarchem Laboratories, Inc.

### 29-Detergents

Cambridge Isotope  
Laboratories

### 34-Intermediates

IQsynthesis  
Matrix Scientific

### 35-Isotopes

Cambridge Isotope  
Laboratories

### 35B-Organic Compounds

Matrix Scientific  
TCI America

### 35A-Pharmaceutical intermediates

Cambridge Isotope Laboratories  
Matrix Scientific

### 37-Reagents

Eastern Chemical Corporation  
Pfaltz & Bauer, Inc.

### 38-Research Chemicals

Cambridge Isotope Laboratories  
IQsynthesis  
Libra Technical Center, LLC  
Mallinckrodt Baker, Inc.  
Matrix Scientific  
Polysciences Inc.

### 39-Solutions, standard

Cambridge Isotope Laboratories

## CHROMATOGRAPHY

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Chiralizer Services, LLC

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GOW-MAC Instrument Co.  
Libra Technical Center, LLC  
Proton Energy Systems

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Chiral Technologies, Inc.  
ZirChrom Separations, Inc.

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D-Star Instruments  
Teledyne ISCO Inc.  
Waters Corporation

## COATINGS

### 50-Contract research

Micromeritics Analytical Svcs

## COMPUTER APPLICATIONS

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Abacalab  
Accelerated Technology Lab  
Simulations Plus, Inc.  
Waters Corporation

## CONSULTING, MANAGEMENT

### 57A-Executive Search

On Assignment Lab Support

### 58-Market research

The Guthertz Group, LLC

### 59-Patents

Banner & Witcoff, Ltd.

## CONSULTING SERVICES

### 65-Contract research

Libra Technical Center, LLC  
Poly(Chem-Tech)  
XenoBiotic Laboratories, Inc.

### 65A-Contract testing laboratory

Chemir Analytical Services  
DuPont Analytical Solutions  
Elemental Analysis Corp.  
Galbraith Laboratories, Inc.  
Schwarzkopf Microanalytical

### 66-Engineering

Castagna Consulting  
Group, LLC

### 68-Forensic analyses

Cargille Laboratories  
Libra Technical Center, LLC

### 69-Infrared analyses

Galbraith Laboratories, Inc.  
Huffman Laboratories, Inc.  
Libra Technical Center, LLC  
Micon Inc.

### 72-NMR analysis

NDE Analytical  
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.

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### 75-Polymers

Chemir Analytical Services  
NDE Analytical  
Schwarzkopf Microanalytical

### 77-R & D

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  
Micon Inc.

### 81-UV analysis

NDE Analytical  
Schwarzkopf Microanalytical  
Chemir Analytical Services  
Galbraith Laboratories, Inc.

## DETECTORS

### 84A-Discharge ionization

GOW-MAC Instrument Co.

### 85-Flame ionization

GOW-MAC Instrument Co.

### 86-Gas leak

GOW-MAC Instrument Co.

### 87A-Thermal conductivity

GOW-MAC Instrument Co.

## ELECTRON

### MICROPROBE

### 88-Electron Microprobe

Micon Inc.

## ELECTRON MICROSCOPY

### 89-Electron Microscopy

EDAX Inc  
Micon Inc.

## ENVIRONMENTAL ANALYSIS

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Bruker Daltonics Inc.  
Schwarzkopf Microanalytical

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Micon Inc.

## GENERAL EQUIPMENT

### 93-AA lamps

Hellma Cells Inc.

### 100-Centrifuges

Eastern Scientific Co.

### 105A-Deuterium Lamps

Hellma Cells Inc.

### 106-Distilling Equipment

Milestone, Inc.

### 107-Dryers

Bel-Art Products

### 109-Evaporators

Eastern Scientific Co.

Milestone, Inc.

### 110-Filters

Avery Filter Co.

### 112-Freeze Dryers

Eastern Scientific Co.

### 114-General Laboratory Equipment

Glas-Col, LLC

### 115-Germicidal Lamps

Hellma Cells Inc.

### 116-Glassware

Q-Glass Co Inc.

Quartz Plus Inc.

### 118-Homogenizers

Sonics & Materials  
TRI/Princeton

### 119A-Labware

Cargille Laboratories

Globe Scientific Inc

Milestone, Inc.

### 120A-Light Sources

Hellma Cells Inc.

### 122-PID Lamps

Hellma Cells Inc.

### 125-Presses

International Crystal Labs

### 129-Pumps

Eastern Scientific Co.

Fluid Metering, inc.

KNF Neuberger

### 133-Spectrophotometer cells

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