Dr. Roger C. Prince
2006 North Jersey Section's
Lifetime Achievement Awardee

See page 8.
CIRCULATION: 8,500

The monthly newsletter of the New York & North Jersey Sections of the American Chemical Society. Published jointly by the two sections.

CONTENTS

Advertisers Index ........................................ 24
Call for Nominations ................................. 16
Education .............................................. 14
Lifetime Achievement Award ................... 8
New York Meetings ................................. 13-15
North Jersey Meetings ........................... 10-12
Others ................................................. 17-21
Professional/Product Directory ......... 20-24

EDITORIAL DEADLINES

September ................................................. July 14
October ................................................. August 15
November ............................................. September 14
December .............................................. October 15
January .................................................. November 16
February ............................................... December 14
March ..................................................... January 15, 2008
April ......................................................... February 16
May ......................................................... March 14
June ........................................................ April 14

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Visit Us www.TheIndicator.org
THIS MONTH IN CHEMICAL HISTORY - PART I

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

I don’t want my readers to get the wrong idea; I do read books other than those featuring old sci-
ence. In fact, I read many mystery stories, and perhaps one day I’ll write some columns about an
interest of mine in scientific detectives in mystery fiction. But not today. The opening of this col-
umn was inspired by my reading recently Lelia: The Life of George Sand” by Andre Maurois.

Berthelot (not to be confused with Lavoisier’s contemporary and colleague Claude-Louis
Berthollet) was indeed a great scientist. My account of his career draws on the Berthelot memo-
rial lecture, delivered by Harold Bailey Dixon, a pioneer in reaction kinetics, to the Chemical
Society of London on November 23, 1911.

Berthelot was born in Paris on October 25, 1827 and died, also in Paris, on March 18, 1907. His
father was a physician and his parents sent their precocious son to a distinguished school, the
College Henri IV, where he won the highest prizes in competition with scholars from all over
París. His education was rich in the classics, but he decided to study natural sciences at univer-
sity. He completed the full medical course but also worked at chemistry in the laboratory of
Pelouze, a pioneer in natural products chemistry. He was appointed in 1851 as lecture assistant
at the College de France to Ballard, who discovered bromine. He earned his doctorate in three
years with a thesis “On the Combinations of Glycerine with Acids, and on the Synthesis of the
Vitalist doctrine in organic chemistry. Berthelot was appointed Professor in the Ecole Superieure
de Pharmacie in 1859 and lectured there, but continued his researches at the College de France.
In 1860 his most famous book appeared: “Organic Chemistry founded on Synthesis.” Wide recog-
nition of Berthelot’s talents soon followed; membership in the Academie des Sciences and in for-
gotten chemical societies; prizes from the Academie, the Royal Society, and the Chemical Society
of London.

The next few years saw successions of successes in this field. Studies of the chemistry of sug-
ars were followed in 1855 by the earliest of his papers on the total syntheses of organic com-
pounds from simple building blocks: ethanol from ethylene; and formic acid from carbon monox-
ide. He followed this up with syntheses of hydrocarbons, methanol, and acetic acid. Passage of
hydrogen through a carbon arc yielded acetylene which could be elaborated into more complex
organic compounds and also trimerized to benzene, parent of the aromatics. These syntheses of
organic compounds from relatively simple starting molecules were perhaps the true death of the
vitalism doctrine in organic chemistry. Berthelot was appointed Professor in the Ecole Superieure
de Pharmacie in 1859 and lectured there, but continued his researches at the College de France.
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gotten chemical societies; prizes from the Academie, the Royal Society, and the Chemical Society
of London.

In mid-career Berthelot turned to topics in physical chemistry. His studies of the ethanol/acetic
acid/ethyl acetate/water system with his student St. Gilles were among the earliest of both reac-
tion kinetics and equilibrium. He also studied the partition of solutes between immiscible sol-
vants. But his great work in this area was in thermochimie. From 1863 until 1879 he and his
students established the thermochimical data for hosts of reacting systems which he published
in two major books. He enunciated his (incorrect) “principle of maximum work” that every chem-
ical system reacts to produce the maximum amount of heat energy – which ignores what we now
know of the effects of entropy. But that was a considerably later notion. Berthelot also made
important contributions both theoretical and practical to the study of explosions.

In a subsequent column I will discuss Berthelot’s contributions to public life in France – and to
the history of chemistry.


**MAY HISTORICAL EVENTS IN CHEMISTRY**

**by Leopold May**

May 1, 1493
Paracelsus or Theophrastus Bombast von Hohenheim, who founded a new school of chemistry, was born on this day. He initiated alchemy, which is the application of chemistry to medicine, believed that the four elements (air, water, earth, & fire) were present in substances as three principles: mercury (volatility and fusibility), sulfur (inflammability), and salt (incombustibility), and developed a cure for St. Vitus Disease.

May 3, 1895
Herman F. Mark, who was born on this day, is known as the "Father of polymer chemistry".

May 4, 1811
John W. Draper, the first ACS president, was born on this day. He was a pioneer in photography and improved on Daguerre's process.

May 7, 1898
Sidney Altman, who was born on this date, proved that ribonucleic acid (RNA) can act as a catalyst in the cell. He shared the Nobel Prize with Thomas Cech in 1989 for their discovery of catalytic properties of RNA.

May 10, 1860
Robert Bunsen & Gustav R. Kirchoff announced the discovery of cesium on this date.

May 11, 1902
Donald F. Othmer, chemical engineer who developed the Othmer still, was born on this date. He and Raymond Kirk of the Polytechnic Institute of Brooklyn were the founders and editors of the Kirk-Othmer Encyclopedia of Chemical Technology.

May 13, 1857
One hundred and fifty years ago, Theodor Curtius was born on this date. He was a researcher in chemistry of hydrazines and azides. He discovered the Curtius rearrangement.

May 15, 1859
Pierre Curie, who codiscovered polonium and radium with his wife, Marie Curie, was born on this date. He discovered phenomenon of piezoelectricity. In 1903, he shared the Nobel Prize in Chemistry with Marie Curie and Antoine H. Becquerel for their extraordinary services they have rendered by their joint researches on the radiation phenomena discovered by Professor Henri Becquerel.

May 17, 1836
Joseph N. Lockyer, who was born on this day, discovered helium in the Sun.

May 19, 1916
Ralph Landau cofounded Scientific Design in 1946 and led in the development of terephthalic acid process in polyester manufacture and the propylene oxide process. This is his birthday.

May 20, 1860
One hundred years ago, Eduard Buchner received the Nobel Prize in Chemistry for his biochemical researches and his discovery of cell-free fermentation. He invented the Büchner Funnel and discovered alcoholic fermentation without yeast cells in 1896, and zymase in 1897. He was born on this date.

May 23, 1854
Edgar F. Smith, who did research in electrochemistry and history of chemistry, was born on this date. He served as President of ACS three times.

May 26, 1865
Max Julius Louis Le Blanc did research on electrochemical polarization and electrodes introducing the hydrogen electrode. He was born on this date.

May 27, 1857
One hundred and fifty years ago, Theodor Curtius was born on this date. He was a researcher in chemistry of hydrazines and azides. He discovered the Curtius rearrangement.

May 29, 1781
Henry Cavendish, who was born on this day, isolated glucose from plant material such as sawdust, linen or bark by boiling in acid. He prepared "xyloidine", a precursor for plastics, by treating starch, sawdust, and cotton with nitric acid.

May 31, 1941
Louis J. Ignarro shared the Nobel Prize in Physiology or Medicine (1998) with Robert F. Furchgott and Ferid Murad for their discoveries concerning nitric oxide as a signaling molecule in the cardiovascular system. He was born on this date.

Additional historical events can be found at Dr. May's website, http://faculty.cua.edu/may/ChemistryCalendar.htm.
Dr. Roger C. Prince of the Biomedical Sciences Division of ExxonMobil Research and Engineering Company is an internationally recognized leader and spokesperson for environmental science and pioneer in the fields of bioenergetics, biomineralogy, and oil spill research. He has applied his penetrating insight to an incredible variety of scientific problems and is held in the highest esteem as a scientist. He has pursued an aggressive research program that has resulted in over 300 papers that have had substantial impact on the scientific community. His work is fueled by an intense interest in physical, biological and chemical processes that impact the fate of materials in the environment and has involved skillful interaction at the interface of chemistry, physics, biology, geology and oceanography.

Dr. Prince's research career has centered on biological redox chemistry and its central role in the energetics of life. His doctoral work at the University of Bristol was aimed at understanding the energetics of bacterial photosynthesis, and he has continued this work both while at the University of Pennsylvania and at ExxonMobil. He has made important contributions in the energetics of electron transfer, particularly the effects of kinetic limitations of protonation or conformational changes that make functional potentials very different from those measured at equilibrium. With colleagues at the University of Pennsylvania he discovered membrane attached electron carrier proteins that established a new paradigm of "hard-wired" electron transfer. Previously it was generally accepted that electron transfer was carried out by freely diffusible proteins such as cytochrome c. The efficiency and productivity of photosynthesis have important social consequences. Among other things they determine the potential roles that biofuels might play in the nation's transportation fuel mix, and Dr. Prince has been working in this area for many years.

Another area of Dr. Prince's research has been application of sophisticated analytical tools to the investigation of the active sites of metalloproteins and clarification of the biochemistry and interactions amongst selenium, arsenic and mercury in plants. The latter are renowned for their toxicity, but a toxic dose of selenite can mitigate the effects of toxic doses of arsenite or inorganic mercury. Careful X-ray absorption spectroscopy studies unraveled the chemistry of these effects and showed how some plants can accumulate arsenic and selenium up to 1% of their dry weight. Understanding the biochemistry of these elements in plants was a prelude to understanding their fate in the environment and for exploiting such reactions for remediating contaminated areas for minimizing human health impacts. Dr. Prince's work has established an important research foundation upon which the solution to applied problems can be built, particularly the potential of using plants and microbes to control these elements in wastewater treatment and in soils, always bearing in mind that the chemical nature of the contaminant, and its redox state, are of vital importance.

Finally, Dr. Prince has been very actively involved in oil spill clean up and other remediation activities, noting that the fate of oil in the environment is principally controlled by biological oxidation under both aerobic and anaerobic conditions. Crude oils and their refined products are very complex mixtures of hydrocarbons, and one of his most important contributions was using conserved internal markers within hydrocarbon mixtures to follow the biodegradation of the more labile compounds. His work is heavily cited and many other groups now regularly employ the internal marker approach he pioneered. He was Exxon's lead scientist in the Bioremediation Monitoring Program following the Exxon Valdez spill in Alaska, which demonstrated, in a joint program with state and USEPA scientists, that bioremediation was a safe and effective way to clean up the spilled oil, and has subsequently been involved with a major successful trial in the Arctic. His understanding of the fate and behavior of spilled oil has resulted in major shifts in thinking regarding the impacts and effects of oil spills. The Exxon Valdez bioremediation program was the largest ever completed - over 60 miles of beaches in 1989-1990.

Underlying these at first glance disparate areas is a deep interest in the fundamental oxidation-reduction chemistry that underlies biochemistry and bioenergetics, and a desire to share that interest with students and colleagues. Dr. Prince has managed to maintain a broad interest in biological chemistry with a focus on potential uses of this science in the energy industry, and effective collaborations with colleagues in universities and government laboratories and agencies. Bioremediation has proven to be a safe, reliable, environmentally responsible, cost-effective technology for oil spills at sea and on land. And biofuels may yet play a substantial and important role in providing transportation fuels.

Dr. Prince has presented many invited seminars and lectures and serves on important scientific review panels and prestigious scientific planning committees. His unfailing level of high achievement has been recognized by invitations to join the advisory boards of the ACS journal Environmental Science and Technology, the Editorial Boards of Bioremediation and Biochemistry et Biophysica Acta, and the Industrial Advisory Board of the Integrated Petroleum Environmental Consortium at the University of Tulsa.

Dr. Prince has a keen interest in the training and education of young scientists. He has passed on to many his enthusiasm for the written word, hands-on experimentation and meticulous attention to detail. His extremely encouraging and warm attitude, endless curiosity, encyclopedic knowledge, exquisite expertise in spectroscopy, and joy and enthusiasm for work has impacted scientists of all ages. He makes work a joy. At home he is a devoted family man, an avid gardener and bee keeper, but in addition, ever the scientist. To walk around his garden with him is to invite an education.

The mission of the ACS is "to encourage in the broadest and most liberal manner the advancement of the chemical enterprise and its practitioners". Dr. Prince's career exemplifies the role the ACS plays in educating people about the importance of chemistry in developing new solutions, protecting the environment and contributing to the economy. It truly embodies the spirit of the society's mission.

By Evelyn Drake, Ph. D.

**Editor's note:** The award will be presented at the annual NJ ACS award dinner on May 21 at Fairleigh Dickinson University.
NORTH JERSEY EXECUTIVE COMMITTEE MEETING AND 50 & 60 YEAR MEMBERS AWARDS DINNER

Date: Monday, May 21, 2007
Time: Social 4:30 PM

Dinner and Presentation of Certificates 5:30 PM

General Interest Talk to follow dinner: “Reflections of a Chemical Career” presented by Dr. Roger Prince, 2006 North Jersey Lifetime Achievement Award Recipient

Place: Fairleigh Dickinson University
College at Florham
Lenfell Hall, the Mansion
Madison, NJ

Cost: $35.00

Directions: can be found at

Reservations: Call (732) 463-7271 or e-mail njacs@aol.com prior to Monday, May 14, 2007.

NORTH JERSEY SECTION 2007
50-YEAR MEMBERS

Mr. Donald J. Bachrach
Dr. Robert Barnes
Mr. Lester I. Barsky
Dr. William Bartok
Mr. William H. Barton
Dr. Abe Berger
Mr. Sidney S. Grossman
Mrs. Margaret H. Graham
Ms. Clara Gale Goldbeck
Dr. Bernard Beau Brown
Dr. William F. Brill
Mr. Bernard Beaz Brown
Mr. Antonio Caldarelli
Mr. William M. Cartwright
Mr. Harry L. Dickey
Mr. Edward Eigen
Mr. Harmon Loe Finston
Mr. Seymour Friedman
Dr. Shoucheng Joseph Fu
Mr. Joseph M. Kozimbo
Mr. Dr. Harold Yacowitz

IN MEMORIAM
Mr. Laurence Barchi 33 years service

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, May 3, 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 vijkuck@yahoo.com, if you plan on attending this meeting.

ChemTAG MEETING

Date: Wednesday, May 9, 2007
Times: 4:00 – 6:00 PM
Place: J.P. Stevens High School
855 Grove Street
Edison, NJ

Contact: Paul Sekuler at researchehs@hotmail.com

NMR TOPICAL GROUP

Structural NMR Studies of Small Molecule Dimers: Problems, Challenges, and Solutions

Speaker: Dr. Alexei V. Buevich
Senior Principal Scientist
Structural Chemistry
Schering-Plough Research Institute, Kenilworth, NJ

Dr. Buevich holds a Ph.D. and a Master’s Degree in Physical Organic Chemistry from the Lomonosov Moscow State University, Russia. Prior to joining the Schering-Plough in 2001 he was a Research Associate at Rutgers University, NJ, a Post-Doctoral Fellow at Umea University, Sweden, and a Senior Research Scientist at the N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences. His current
research interests include the application of NMR spectroscopy and computational methods to the R&D problems of pharmaceutical industry.

**NMR TOPICAL GROUP**

**Date:** Wednesday, May 23, 2007
**Times:** Dinner 6:30 PM
**Place:** Woodbridge Hilton
**Cost:** Dinner cost: $30 ($10 for student/postdoc), No charge for seminar only.
**Directions:**
http://njacs.org/d_woodhilt.html
Register online: http://njacs.org/nmr.html, or via e-mail to WENQING.FENG@SPCORP.COM.

**CHEM CENTRAL**

**Date:** Wednesday, May 23, 2007
**Times:** 4:00 – 6:00 PM
**Contact:** Roseann McCarthy at roseannmcc@comcast.net for details.

**ORGANIC TOPICAL GROUP**

**New Methods and Strategies for Heterocyclic Synthesis**

**Invited Speakers:**
- Stephen F. Martin (University of Texas, Austin, “Strategies for the Synthesis of Heterocyclic Natural Products”)
- Tomas Hudlicky (Brook University, St. Catharines, Ontario, Canada) “Chemoenzymatic Synthesis of Alkaloids: A Multi-Generational Approach”
- Victor Snieckus (Queen’s University, Kingston, Ontario, Canada) TBA

**Patrick Harran**
(University of Texas Southwestern Medical Center, Dallas)
“Synthetic Means to Reach Natural Ends”
Mohammad Movassaghi
(MIT)
“Cascade Reaction in Complex Alkaloid Synthesis”

**Date:** Thursday, May 24, 2007
**Times:** 8:00 – 10:30 AM
**Place:** Embassy Suites
121 Centennial Avenue
Piscataway, NJ
**Cost:** $95.00 (Symposium and lunch) $55 for Guests and Members

**ECONOMICS GROUP**

**Date:** Wednesday, May 2, 2007
**Time:** Social 5:00 PM
**Place:** The Chemists’ Club
340 Kingsland Street
Nutley, NJ 07110
**E-mail:** binh_t.vui@roche.com

**Awardee:** Mary K. Cowman, Ph.D.

**New York Meetings**

**www.newnyorkacs.org**

**WESTCHESTER CHEMICAL SOCIETY**

**THE DistinguisheD SCIENTIST AWARD AND DINNER AND COLLEGE ACHIEVEMENT AWARDS**

**One Molecule at a Time: Using Nanoscale Imaging to Understand Biological Properties**

**Speaker:** Dr. W. Christopher Hollinsed

**Date:** Thursday, May 3, 2007
**Time:** Cocktails 11:30 AM
**Place:** The Chemists’ Club
40 West 45th Street
New York, NY
**Fees:** $40 discount price for Members who reserve by Tuesday, May 1 (12 noon) before the meeting. $55 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price. Call Vista Marketing at (917) 684-1659 or via e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal): go to our Website: http://www.nyacs-cme.org/.

**CHEMICAL MARKETING & ECONOMICS GROUP**

**New Strategies for Technical Innovation in Petroleum Research**

**Speaker:**
Dr. W. Christopher Hollinsed

**Date:** Thursday, May 3, 2007
**Time:** Cocktails 11:30 AM
**Place:** The Chemists’ Club
40 West 45th Street
New York, NY
**Fees:** $40 discount price for Members who reserve by Tuesday, May 1 (12 noon) before the meeting. $55 for Guests and Members (at the door without reservations)

To reserve: Please reserve early to be eligible for discount price. Call Vista Marketing at (917) 684-1659 or via e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal): go to our Website: http://www.nyacs-cme.org/.

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**THE INDICATOR-MAY 2007**

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**THE INDICATOR-MAY 2007**
LONG ISLAND SUBSECTION
Eleventh Annual Frances S. Sterrett Environmental Chemistry Symposium
“Liquified Natural Gas: Safe ‘n Sound?”
Speakers include:
- Froydis Cameron, Broadwater Energy
- Adrienne Esposito, Citizens Campaign for the Environment
- Captain Peter Boynton, United States Coast Guard

Date: Thursday, May 24, 2007
Time: 8:30 AM – 2:00 PM
Place: Hofstra University
Business Development Center
Room 246
Register now!
Fill out and return the form below. The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics. Email questions to Dr. Barbara Hillery at hilleryb@oldwestbury.edu or call (516) 878-2738.

REGISTRATION FORM:
PLEASE COPY AND SEND TO: DR. NEIL JESPERSEN, DEPT. OF CHEMISTRY
ST. JOHN’S UNIVERSITY, 8000 UTOPIA PKWY, JAMAICA, NY 11439
(516) 883-7510; e-mail: njesper1@optonline.net
REGISTRATIONS RECEIVED BY MAY 20 INCLUDE LUNCHEON
NAME ______________________ PHONE ______________________
ADDRESS ______________________________________________________________
CITY ______________________ STATE____ ZIP ________________
PLEASE REGISTER ___ PEOPLE FOR THE FRANCES STERRETT ENVIRONMENTAL CHEMISTRY SYMPOSIUM ON ‘LIQUIFIED NATURAL GAS: SAFE ‘N SOUND?’ PLEASE LIST OTHER NAMES, ADDRESSES, AND PHONE NUMBERS ON A SEPARATE PAGE.
ENCLOSED IS $ _______ FOR THE RESERVED SPACES INDICATED BELOW.
____ ACS Members @ $25.00 ____ Non-ACS Members @ $35.00
____ Students/Retired @ $17.00

EDUCATION

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BIOCHEMICAL TOPICAL GROUP — JOINT MEETING WITH THE NYAS BIOCHEMICAL PHARMACOLOGY DISCUSSION GROUP
The Future of Monoclonal Antibody Biotherapeutics Production and Development
Organizers: Keith Canada, Boehringer Ingelheim
Gordon Moore, Centocor, Johnson & Johnson
Janet Kerr, Merck Research Laboratories
Speakers: To be announced
This is a full day event.
Date: Tuesday, May 22, 2007
Time: 9:00 AM – 5:00 PM
Place: The New York Academy of Sciences
7 World Trade Center – 40th floor
250 Greenwich Street
New York, NY
Directions: http://www.nyas.org/about/directions.asp
To reserve a seat, visit the NYAS calendar at www.nyas.org/bpdg and complete the online reservation form, e-mail BPDG@nyas.org, or call tel: (212) 298-3725.
NYAS Members and BPDG Affiliates may attend BPDG meetings free of charge. Non-members may attend for $20. Non-member students and postdoctoral fellows may attend for $10. To become a Member of the Academy, visit http://www.nyas.org/landing.html.

LONG ISLAND SUBSECTION
Education

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. 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
Etse G. Meghehe

Directors-at-Large for 2008
Mary Cowman
Shift L. 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

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

THE INDICATOR MAY 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. 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.

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. Delliner 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.

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

THE CHEMISTS’ CLUB PLAQUE

The symbol on the plaque representing the ACS New York Section is the front of the William H. Nichols Medal. The design represents the allegorical figure of Dr. Faust, the alchemist portrayed in the play by Goethe.

The emblem for the Chemists’ Club is in red and gold, the club’s colors. In the upper half are crossed retorts, which symbolize distillation and, therefore, chemistry. The bottom half features a salamander breathing fire; the salamander was believed to have the ability to withstand flames, and in this design represents the spirit of fire. Surrounding the entire emblem is a hexagonal benzene ring, representing organic chemistry.

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Others

THE CHEMISTS’ CLUB

Historic Chemical Landmark

The Chemists’ Club was founded in 1898 by a pioneering group of educators and entrepreneurs in the burgeoning American chemical industry. This building was constructed to house the Club’s world-class industry library, chemical research laboratories, and to provide a meeting place to discuss work and to socialize with peers; purposes it served at this site from 1911 until 1988. This plaque honors the building and the individuals who have devoted their time and effort to sustain the Club for more than one hundred years. Presented by the American Chemical Society, New York Section on December 12, 2006.

Left to Right: Dr. Arnold Thackray, President of Chemical Heritage Foundation; Joel W. Jones, President of the Chemists’ Club and Corporate Account Executive, The Dow Chemical Company; Jill Rehmann, 2006 Chair-ACS-NY; John B. Sharkey of Pace University and Chair of the History of the New York Section.
PROFESSOR NINA BEROVA
WINNER OF 2007 CHIRALITY MEDAL

Nina Berova, Research Professor, Department of Chemistry, Columbia University, New York, and Editor of the journal, Chirality, has been selected as the recipient of the 2007 Chirality Medal in recognition of her outstanding achievements in the field of chiroptical spectroscopy and the elucidation of a wide range of important chemical and biological problems related to molecular and supramolecular chirality.

Nina Berova is one of the foremost leaders in the field of organic stereochemistry and chiroptical spectroscopy. Her significant contributions in promoting circular dichroism (CD) and the exciton chirality method to the scientific community and in developing new methodologies and applications have had a profound impact in many areas in organic chemistry, biochemistry and the pharmaceutical industry. Her innovative development of versatile and sensitive CD reporter groups, such as porphyrin and metalloporphyrin "weezers", and her recent interests in theoretical aspects of chiroptical spectroscopy, renewed applications of optical rotatory dispersion, and fluorescence detected circular dichroism are opening new opportunities for studying and understanding structure in organic, bioorganic, and natural products chemistry.

Professor Berova is the first woman recipient of the Chirality Medal, and joins the ranks of the 17 other distinguished scientists who have been awarded the prize since its institution in 1991 by the Societa Chimica Italiana (SCI). The Medal is administered by the Chirality Medal Honor Committee and presented at a meeting of the International Symposium on Chirality. The formal presentation of the Chirality Medal to Professor Berova will take place at the 19th International Symposium on Chirality, on July 8, in San Diego. (www.chirality2007.org)
SUMMER WORKSHOPS FOR HIGH SCHOOL CHEMISTRY TEACHERS

The American Chemical Society is sponsoring teacher training workshops this summer throughout the country for high school chemistry teachers. Two types of workshops are available: Chemistry in the Community, and Advanced High School Chemistry, Teacher Training Workshops. In each workshop teachers are led by experienced secondary and/or college chemical educators who provide participants with information and tools for teaching inquiry-based learning.

Advanced High School Chemistry, Teacher Training Workshops, led by experienced secondary and college chemical educators, provide participants with tools for teaching an inquiry-based honors or advanced high school chemistry course such as IB or AP. The activities used in these three-day workshops are from the ACS college text, Chemistry which emphasizes short experiments to introduce chemical concepts, and promote active and collaborative learning. All interested advanced high school chemistry teachers are encouraged to apply, regardless of current textbook.

Chemistry in the Community, Teacher Training Workshops are designed for teachers using or intending to use the ACS textbook Chemistry in the Community. In these five-day workshops, experienced ChemCom teacher leaders provide expert instruction and hands-on experience with many of ChemCom’s activities and laboratory investigations.

There is a $50.00 registration fee for each workshop, which includes all materials, meals and on-site housing. The dates and locations appear below.

June 24 - California State University, Northridge, CA
July 8 - Concordia University, Ann Arbor, MI
July 8 - Greater Hartford Academy of Math and Science, Hartford, CT
July 15 - University of St. Thomas, Houston, TX
August 5 - St. Thomas University, St. Paul, MN

More information, application forms and/or online registration may be found at www.chemistry.org/education (follow the link for workshops and courses).