

Chesapeake Chemist

*Maryland Section
American Chemical
Society*

Braude Award



Madeleine Jacobs

Executive Director and
Chief Executive Officer
American Chemical Society

Tuesday, October 26, 2004
Villa Julie College

Councilor's report of the Philadelphia Meeting of the ACS, August 25, 2004

by Charles Rowell

All four councilors were present for the council meeting. Merle Eiss helped with the organization of the meeting and with presiding during some parts of it in her last performance as Vice-Chair of the Council Policy Committee.

The meeting started with several numbers played by members of the Philadelphia Mummies band. An accordion, five saxophones, a banjo, and a drum is a different sound but the glow was there. Elections for the coming year for council committees found Merle being elected to the Committee on Nominations and Elections. Other elections that will be held showed significant competition, since there were 6 persons who were nominated by petition out of 13 candidates. This competition was illustrated by the close failure of a "sense of the Council" proposal about the size of statements made by candidates and a move to send the proposal to establish an Ethics Committee back to committee rather than to vote on it at this time. There were 13,805 registrants at the meeting in Philadelphia. The ACS membership stands at 154,945 and has a good flow of recent graduates in the group of new members.

Three petitions for amendment to the Constitution or bylaws were passed. The important ones for the Maryland section are the opportunity to set up e-mail based voting systems for local section elections and a change in the requirements needed to bring high school chemistry teachers into the Society.

There was an open discussion about Multidisciplinary Nature of Chemistry and its impact on the future of the ACS. The Board and the Council have established a task force to examine this further.

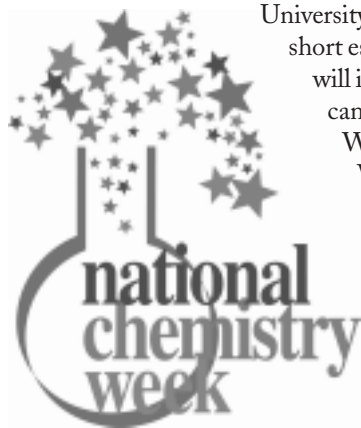
NCW Theme 2004: Health & Wellness October 17-23, 2004

To celebrate NCW, the Maryland Section will hold the Chemistry Magic Show, at Villa Julie College, before the dinner meeting, on October 26, as well as on October 30 during Towson University's Family Weekend.

Dr. Shirish Shah will celebrate NCW with his students at Towson University and at Villa Julie College by reviewing articles, writing short essays, and presenting posters. The topics for these activities will include nutrition, water quality, smoking and alcohol, and cancer. Dr. Shah will also take a group of students to the Water Filtration Plant in Baltimore, to a Health and Wellness Center, and out for Chinese food to understand the nutritional value of Asian cuisine.

The Chemistry Clubs of Morgan State University and Towson University will also be participating in National Chemistry Week events.

In addition, Dr. Sandra Young, Dr. Rose Pesce-Rodriguez, and Dr. Shah are planning NCW events at some local elementary schools in early November.



Chesapeake Chemist

Editor: Cindy Kronman
734 Benfield Road
Severna Park, MD 21146
cakvt@hotmail.com

Section Officers

Chair: Paul Smith
pjsmith@umbc.edu

Vice-chair: Alan C. Samuels

Chair-elect: Sandra Young

Secretary: Stephanie Scierka
410-762-1141

Treasurer: Angela Sherman
CND of MD
4701 North Charles St.
Baltimore, MD 21210
410-532-5713

Councilors

Merle I. Eiss Donald Jones
410-484-0521 202-364-2740

David Roswell Charles Rowell
410-617-2458 410-647-9452

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Student awards:
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gfarrant@ccbcmd.edu

Braude Award:
Charles F. Rowell, 410-647-9452

Education and Kids and Chemistry:

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National Chemistry Week:

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Chemistry Olympiad:

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MARM:

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High School Teachers:

Elena Pisciotta

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Career Planning:

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Government Relations:

Shirish Shah and Robert von Tersch

Retired Chemists:

Alvin Bober, 410-581-5321

Young Chemists:

Amanda Miller

Maryland Section on the web: <http://mdchem.org>

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October Dinner Meeting

Tuesday, October 26, 2004, Villa Julie College

4:45 - 5:30 PM	Chemistry Magic Show, Knott Hall, Room 23
6:00 - 6:45PM	Registration and Social, Glass Pavilion
7:00 - 7:45PM	Dinner
8:00 - 9:00 PM	<u>George L. Braude Award Recipient</u> Madeleine Jacobs, ACS Executive Director & Chief Executive Officer “The Challenges for Chemists and the American Chemical Society in the 21 st Century”

Cost for the dinner is \$20.00 for members; \$15.00 for spouses, retired chemists and guests \$15.00, and \$10.00 for students. For reservations, contact Dr. Shirish Shah at 410-323-0803(H) or via e-mail at dr.shah@juno.com.

Biographical Sketch: Madeleine Jacobs

Madeleine Jacobs is the first woman to be appointed Executive Director and Chief Executive Officer of the American Chemical Society, the world's largest scientific society. She assumed her post in January 2004.

Prior to her selection by the ACS Board of Directors from a pool of 250 candidates, Ms. Jacobs was the first woman to be appointed editor (and editor-in-chief) of *Chemical & Engineering News* magazine, the weekly newsmagazine of the chemical world published by the American Chemical Society for its members and other interested professionals. The magazine, with its staff of 52 people in seven news bureaus around the world, celebrated its 80th anniversary in 2003.

Ms. Jacobs majored in chemistry at George Washington University and graduated with a B.S. in chemistry with honors and distinction (Phi Beta Kappa in her junior year) in 1968. She carried out graduate work in organic chemistry for a year at the University of Maryland before joining the staff of *Chemical & Engineering News* in 1969. There, she was an assistant editor and writer both in the Washington, D.C., office of C&EN and on the West Coast, where she covered 10 western states. She worked at C&EN for three years.

In 1972, she worked at the National Institute of Allergy and Infectious Diseases as a writer and editor. In 1974, she joined the staff at the National Bureau of Standards (now the National Institute of Standards and Technology) where she rose to the position of chief of media liaison and general publications. She was the principal media spokesperson for NBS and oversaw the publication of a monthly research news magazine and numerous publications reporting on science research. She also freelanced for *Physics Today* and *Smithsonian* magazine. During these positions, she used her chemistry training and background to write about science developments for a general audience.

In 1979, she joined the Smithsonian Institution as the chief science writer, and was soon promoted to assistant director and then director of the Office of Public Affairs. Her work there included launching the nationally syndicated Smithsonian News Service (a monthly

feature story service for 1,500 daily and weekly newspapers) and overseeing the publication of three periodicals, including the quarterly news bulletin on research. In 1986, she became director of the Office of Public Affairs and became the principal media spokesperson for the entire Institution. For her work at the Smithsonian to increase awareness of the Institution among underrepresented audiences, she received the Secretary's Smithsonian Gold Medal.

During her government career, Ms. Jacobs received more than three dozen awards for outstanding science writing from national organizations.

She returned to Chemical & Engineering News in 1993 as managing editor. She became editor-in-chief in July 1995. Among other accomplishments as editor-in-chief, Ms. Jacobs oversaw two redesigns of the magazine, the expansion of the editorial staff into the Pacific Rim, the introduction of a fully interactive Web edition (Chemical & Engineering News Online), and the launch of an online job website (Chemjobs). She also coordinated marketing and advertising efforts which led to a significant increase in advertising revenues.

In 1998, she also conceived of and coordinated C&EN's 75th anniversary celebration, which included a special issue, a symposium on the challenges for chemistry in the new millennium, curriculum materials for high school chemistry teachers based on the special issue, a public event to honor C&EN's Top 75 Contributors to the Chemical Enterprise, and a gala black tie, invitation-only dinner to honor the Top 75 and C&EN's Top Corporate Supporters. She also conceived of and executed a series of events for the magazine's 80th anniversary in 2003, including a special issue on the Periodic Table and a black tie gala for 800 people in New York City.

Ms. Jacobs' professional interests include trends in the chemical industry, the public image of chemistry, employment trends, minority representation, and gender equality of scientists. She has written about many of these topics for more than 30 years, and frequently gives speeches on these subjects.

Ms. Jacobs has received many honors including the Smithsonian Institution Secretary's Gold Medal (1993), the ACS Executive Director's Award (1999), the New York Academy of Sciences Women History Month Award (2001), the 75th Canadian Society for Chemistry Conference Lecturer (2002), the ACS Award for Encouraging Women into Careers in the Chemical Sciences (2003), and a Doctor of Science (honoris causa) from George Washington University (2003). She will receive the American Crystallographic Association Public Service Award in 2004.

A native of Washington, D.C., Ms. Jacobs has been married to an artist for 32 years and has a stepson, a daughter-in-law, and two grandchildren, Matthew Jr., 19, and John, 14. Her hobbies include cooking, photography, swimming, weight training, gardening, and writing poetry.

Note: The Braude Award includes a \$1,000 grant. Ms. Jacobs has selected Dr. Michael King, chairman of the Department of Chemistry, The George Washington University in Washington, D.C., to be the recipient of the grant.

Directions to Villa Julie College: From the beltway (695), take Falls Road north. At the light (approximately a mile), turn left on to Green Spring Valley Road. Cross the Green Spring Avenue intersection. From there, the college is approximately 2 miles on the left side. The gate for Villa Julie College is soon after the Sisters of Notre Dame Community gate. There will be signs for parking.

Middle Atlantic Regional Meeting (MARM) 2005

MARM 2005 is scheduled for May 22-25 at Rutgers University, New Brunswick, N. J. Chemistry at the Cross Roads of Science, this year's theme, will explore the chemist's role in pushing back the frontiers of science. Rutgers University, neighboring sections, society divisions and local allied societies are working with the North Jersey section to plan the meeting.

All MARM region ACS members are invited to attend this meeting as a presenter and/or an attendee. The call for papers and registration will open **November 15, 2004**.

The Johns Hopkins University 2004 Fall Chemistry Colloquium Schedule

- October 19 Professor Michael F. Hochella, Virginia Tech
"Mineral-Fluid Interfaces and Interactions: From Molecular to Local, Regional, and Global-Scale Processes"
- October 26 Professor Scott Silverman, University of Illinois Urbana-Champaign
"DNA Enzymes for Bioorganic Chemistry"
- November 2 Professor Stephen R. Leone, University of California, Berkeley
"Ultrafast Molecular Dynamics"
- November 9 Professor Philip B. Shevlin, Auburn University, NSF
"Reactions of Atomic Carbon and Related Energetic Intermediates"
- November 16 Professor David Eliezer, Cornell Medical College
"NMR Studies of Proteins Associated with Neurodegenerative Disorders"
- November 30 Professor J. David Rawn, Towson University
"Computational Analysis of RNA Interference Networks and Their Potential Role in the Regulation of Gene Expression"
- December 7 Professor James W. Canary, New York University
"Triggered Stereochemistry in Tripodal Ligand Metal Complexes"

All lectures are held at Remsen Hall, room 233, Tuesdays at 4:15 pm. For more information contact Rosalie Elder, 410-516-7432.

NCW coordinators with 5 or more years of service honored in Philadelphia

It is only through the hard work, commitment and dedication of our volunteers that the National Chemistry Week program has grown from its beginnings in 1987 as National Chemistry Day to reaching an estimated 31 million people last year. The Committee on Community Activities and the Office of Community Activities recognized all of those individuals with five or more years of service as NCW Coordinator during the "Celebrating Chemistry—Reunion, Recognition, and Highlights" event at the ACS national meeting in Philadelphia.

Maryland Section's Dr. Shirish Shah was among those volunteers recognized.

October Historical Events in Chemistry

by Leopold May, The Catholic University of America, Washington, D.C.

- October 3, 1904 Birthdate of Charles J. Pedersen. He found that alkali metal ions could be bound by crown ethers in a rigid layered structure and received the Nobel Prize (1987) for their development and use of molecules with structure-specific interactions of high selectivity.
- October 4, 1957 Sputnik I, the first artificial earth satellite, was launched by the USSR.
- October 9, 1879 Birthdate of Max von Laue, a researcher in X-rays and crystal structure. He suggested that crystals diffract X-rays (1912) and won the Nobel Prize in Physics (1914) for his discovery of the diffraction of X-rays by crystals.
- October 11, 1884 Frederich Bergius, who was born on this date, researched chemical reactions at high pressure, conversion of coal into oil, hydrolysis of wood to sugar and cattle feed. In 1931, he shared the Nobel Prize with Carl Bosch in recognition of their contributions to the invention and development of chemical high-pressure methods.
- October 13, 1916 GM was incorporated on this date.
- October 14, 1886 Jacobus H. Van't Hoff presented before the Swedish Academy of Science the law showing that the osmotic pressure of a dilute solution obeys Boyle's, Charles's, and Avogadro's Laws, and that $pV = RT$.
- October 15, 1608 Evangelista Torricelli, who was the first to create a sustained vacuum, was born on this date. He built the first barometer.
- October 18, 1844 Birthdate of Harvey W. Wiley, "The Father of Pure Food Law."
- October 19, 1870 Birthdate of Robert Bowie Owens, who detected thorium radiation.
- October 23, 2004 **Mole Day**, 6.02 a.m. through 6.02 p.m. (Mole time)
Mole Moment: 50.453 s after 6.42 p.m.
- October 24, 1854 Birthdate of Hendrik W. B. Roozeboom. He was a researcher on the application of the phase rule.
- October 26, 1944 On this date, the Trust Agreement creating the Petroleum Research Fund was signed with seven major oil companies.
- October 28, 1914 Birthdate of Richard L. M. Synge, who shared the Nobel Prize in 1952 with Archer J. P. Martin for their invention of partition chromatography.
- October 31, 1925 John A. Pople, who was born on this date, received the Nobel Prize in 1998 for his development of computational methods in quantum chemistry shared with Walter Kohn for his development of the density-functional theory.

Mark your calendars:

- November 18, 2004 University of Maryland, Baltimore School of Pharmacy
Dr. Andy Coop, synthetic organic chemist
- December 8, 2004 Maryland Chemist Award, Berkshire Hotel, Towson

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Maryland Section has new website

Bookmark the section's updated website at www.mdchem.org for all the latest information on the section's activities, planned events, and contact information for officers and committee members. Information on section activities, etc., is also available at Dr. Shah's webpage: www.towson.edu/~sshah.

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