

The North Jersey American Chemical Society  
Organic Topical Group

*presents*

***Discovery, Selection, and Development  
of Drug Candidates:  
A Senior Leadership Perspective***



Dr. Carl Decicco



Dr. Malcolm MacCoss



Dr. Bruce Roth



Dr. P. Roy Vagelos



Dr. Paul Feldman

Friday, November 17, 2006

Somerset Marriott  
110 Davidson Ave., Somerset, NJ

***See page 11.***

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THE  
**Indicator** ▶  
CIRCULATION: 8,500

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

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**POSTMASTER:** Send address changes to American Chemical Society, Department of Member and Subscriber Services, THE INDICATOR, P.O. Box 3337, Columbus, OH 43210, or e-mail: [service@acs.org](mailto:service@acs.org). Periodicals postage paid at Montville, NJ and additional mailing offices.

Published monthly except July and August. All views expressed are those of the editor and contributors and do not necessarily represent the official position of the New York and North Jersey Sections of the American Chemical Society unless so stated. Subscription price included in dues paid by New York and North Jersey Section members. **Subscription price to non-members of either Section \$20.00 per year. To subscribe, make checks payable to The Indicator and mail to the Manager/Editor (see top of left column on this page).**

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# November Calendar

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Hudson-Bergen Chemical Society  
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**Thursday, November 16, 2006**

Chemical Marketing & Economics Group  
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**Thursday, November 30, 2006**

Alternative Energy Conference  
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**Deadline for items to  
be included in  
the January 2007 issue  
of *The Indicator* is  
November 14, 2006.**

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**Monday, November 13, 2006**

Chromatography Group  
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**Monday, November 13, 2006**

Teacher Affiliates Executive Committee  
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## SCIENCE ON THE HILL: CHEMISTS WHO HAVE SERVED IN THE CONGRESS

By Kevin Olsen

At the time that this issue of *The Indicator* goes to press, the November election for the 110th congress will still be several weeks away. By all accounts this is going to be a major political event with all 435 of the house seats contested and 33 of the 100 Senate seats contested.

For chemists there is much at stake in the election. Congress not determines the levels of funding for research but sets the overall direction of science policies whether we like it or not. The size of the regulatory umbrella over the pharmaceutical, energy, agricultural, food, and environmental industries is also at issue.

Contrary to popular mythology, the congress is not comprised primarily of lawyers, over time the proportion of lawyers averages around 45%. According to Johns Hopkins University, the other large groups represented are, business 13.6 %, public service 9.9%, and education 7.4%. Physicians were tied for ninth place, behind professionals from military, banking/insurance, and media or entertainment backgrounds. There are less than half a dozen economists in the congress.

This might be a good time to pause and examine the careers of some of the chemists who have been elected to congress. Most of the chemists have either been educators or came from the management side of chemical enterprises. Chemists elected to the highest political offices are somewhat rare. The notable exception to this trend is Margaret Thatcher who served as a Conservative member of the British Parliament and later rose to Prime Minister. There has yet to be a comparable American scientist turned politician although President Herbert Hoover was a mining engineer and Ulysses S. Grant once expressed an interest in becoming a mathematics professor. Dwight Eisenhower took several engineering and sciences classes while at West Point but never declared a formal major.

A partial list of chemists who have served in the congress follows. Until quite recently most of the chemists have served comparatively short terms. Some of them have earned law degrees in addition to their scientific training and just about ever person on this list has served on committees or commissions whose purpose is not specifically scientific.

**Samuel Latham Mitchill (1764 - 1831) Democratic Republican, Representative from New York 1801-04 & 1810- 13. US Senator 1804-09.**

Mitchill is the only person on this list to have served in both the House of Representatives and the Senate. He was born in Hempstead, Long Island but traveled abroad for his education. At the University of Edinburgh, Scotland, he pursued classical studies and studied medicine. He graduated in 1786, returned to the United States, studied law, and was admitted to the bar. In 1788 Mitchill served on a commission to purchase the lands of the Iroquois Indians in western New York. He went on to serve as a member of the State Assembly.

From 1798 to 1801 he was professor of chemistry, botany, and natural history in Columbia College. He was one of the founders of the State Society for the Promotion of Agriculture and editor of the *New York Medical Repository*.

Mitchill served in the Seventh, Eighth, and Ninth Congresses from 1801 to 1804. He then served in the Senate from 1804 to 1809, returning to the House in the Eleventh and Twelfth Congresses. (1810-13)

Mitchill continued to pursue both medicine and natural sciences after leaving congress. He was surgeon general of the State militia, founder and president of the Lyceum of Natural History of New York City, and professor of chemistry and natural history in the New York College of Physicians and Surgeons from 1808 to 1820. He taught botany and pharmacology from 1820 to 1826. He was one of the founders and vice president of Rutgers Medical School.

**Nathaniel Peter Hill, (1832-1900), Republican, US Senator from Colorado, 1879-1885.**

Hill was born in Orange County, New York. He graduated from Brown University in Providence, R.I., in 1856. He remained at Brown from 1856 to 1864 first as an instructor and later as a professor of chemistry.

Hill traveled to Colorado in the spring of 1865 to investigate mineral resources and then went to

(continued on page 6)

## SCIENCE ON THE HILL

(continued from page 5)

Europe to study metallurgy in Swansea, Wales, and Freiberg, Saxony. He returned to the United States equipped with a new method of smelting gold ore.

Hill took up residence in Black Hawk, Colorado in 1867. While there he was the manager of the Boston & Colorado Smelting Company and was elected mayor in 1871. He was a member of the Territorial Council from 1872 to 1873.

In 1873 Hill moved to Denver where he was engaged in smelting as well as the real estate business. He also was owner and publisher of the *Denver Republican*.

Hill's election to the senate came in 1879 and he served until 1885. He chaired the Committee on Mines and Mining as well as the Committee on Post Office and Post Roads. After leaving the senate he was an United States delegate to the International Monetary Commission in 1891.

Hill died in Denver in May of 1900 and is interred in Fairmount Cemetery.

### **Edwin Freemont Ladd (1859-1925) Republican, US Senator from North Dakota, 1921-25.**

Ladd spent the first part of his life in Maine and graduated from the University of Maine at Orono in 1884. His chemical career was spent entirely in education and as a government agricultural chemist. He began his career at the New York State Experiment Station, Geneva, N.Y. and later was chief chemist of the North Dakota Agricultural Experiment Station.

Ladd was the dean of the school of chemistry and pharmacy and professor of chemistry at the North Dakota Agricultural College. He was serving as President of the college at the time of his election to the Senate.

From 1899-1904 Ladd was the administrator of the North Dakotas pure-food laws. While in the senate he chaired the Committee on Public Roads and Surveys. Ladd died while in office and was interred in Washington DC's Glenwood Cemetery.

### **Albert Wahl Hawkes (1878-1971) Republican, US Senator from New Jersey, 1943-1949.**

A native of Chicago, Hawkes studied chemistry at Lewis Institute (now the Illinois Institute of Technology) for two years. He graduated from Chicago College of Law in 1900.

Hawkes was active in the chemical industry. During the First World War he served as director of the Chemical Alliance in Washington. In 1927 he became president of a floor covering company, Congoleum-Nairn, Inc. of Kearny, N.J.. He rose to chairman of the board in 1937. From 1941 to 1942 Hawkes was the president and director of the Chamber of Commerce of the United States.

During the years 1941-42 Hawkes also served on the Newark Labor Board, the Board to Maintain Industrial Peace in New Jersey, and the National War Labor Board. He was elected to the Senate in 1942 but did not seek renomination at the end of his term.

Hawkes was a prominent conservative scholar and the author of *Who Can Preserve Representative Democracy?* (1939), *Congress and the Patent System* (1944), and *The Role of the United States in Economic Affairs* (1947).

### **C.G. Mike McCormack (1921- ) Democrat, US Representative from Washington State, 4th district, 1971-1980.**

Of all the persons on this list, McCormack has maintained the closest ties to chemistry. He was the 1999 recipient of the Charles Lathrop Parsons Award that recognizes "outstanding public service by a member of the American Chemical Society".

He was born in Basil, Ohio, and in 1939 enrolled in the University of Toledo. He entered the military in 1943, attended Officer Candidate School, and was commissioned as second lieutenant, parachute infantry, United States Army. After serving in occupied Germany until 1946, he attended Washington State College where he received Bachelor and Master of Science degrees in Physical Chemistry. After a brief time at the University of Puget Sound, McCormack spent twenty years as a research chemist with the Atomic Energy Commission at Hanford, Washington.

In 1956 McCormack elected for the first of two terms in the Washington State House of Representatives. This was followed by three terms in the State Senate. His election to the House of Representatives came in 1970.

McCormack's freshman term was notable as he was the only house member with a degree in Science. He soon was recognized as an expert on energy matters. He was a member of the House Science and Technology Committee and chairman of the Subcommittee on Energy Research and Production. McCormack was involved in legislation that encompassed solar energy, electric cars, and fusion power. McCormack was also involved in the unsuccessful attempt to pass legislation converting the United States to the Metric system.

He lost his seat in the 1980 "Reagan landslide" but remained active in Washington DC. He was a member of the Space Telescope Institute Council.

Returning to Washington State, McCormack founded the Institute for Science and Society, which promotes Science Literacy among K-12 teachers.

### **Robert James Huber (1922-2001) Republican. U.S. Representative from Michigan 18th District, 1973-75.**

Huber attended the University of Detroit from 1935 to 1937 but graduated from Culver Military Academy in 1939 with a B.S. degree. He went on to Yale University's Sheffield Scientific School before serving in the Army from 1943 to 1946.

Huber was mayor of Troy, Michigan from 1959 to 1964. He was also a member of the state senate and candidate for US Senate. Huber was president of Michigan Chrome and Chemical Inc.

### **John W. Olver (1936- ) Democrat. US Representative from Massachusetts 1st District, 1991-.**

Olver was born in Honesdale, Pennsylvania, in 1936. He grew up on a farm with his brother and sister. He earned his B.A. from Rensselaer Polytechnic Institute, his M.A. from Tufts University, and his Ph.D. in chemistry from the Massachusetts Institute of Technology.

Olver was a chemistry professor at the University of Massachusetts at Amherst. His research areas were analytical and electrochemistry. In 1969 he was elected to the Massachusetts State House. He served in the state senate from 1973 to 1991. In June of that year he was sworn in to the U.S. House of Representatives to complete the term of the late Rep. Silvio O. Conte.

He is currently serving on the House Appropriations Committee and the Appropriation's subcommittee on Transportation. In 2005 he was named to the Environment and Related Agencies Appropriations Subcommittee.

### **Ed Lopez Pastor (1943- ) Democrat. US Representative from Arizona 4th District, 1991- .**

Like Olver, Pastor is a former educator. He was born in the mining community of Claypool in Gila County, Arizona. Pastor received a scholarship to attend Arizona State University where in 1966, he earned a B.A. degree in chemistry. He became a high school chemistry teacher at North High School in Phoenix.

Pastor left teaching in 1969 for a career in public service. He was the deputy director for Guadalupe Organization which seeks to improve education for the Indo-Latino youth of Guadalupe, Arizona. From there he served an internship at the Council for Better and Equal Business Opportunities in Washington, D.C..

Pastor returned to Arizona State University to study law and was awarded J.D. in 1974. Pastor was hired as an aide by Arizona's first Hispanic Governor, Raúl Castro. In 1976 he was elected to the first of three terms on Maricopa County Board of Supervisors. In 1991 he ran for the vacant seat caused by the resignation of Representative Morris K. Udall.

Pastor has served on the Appropriations subcommittees for Agriculture, Rural Development, Food and Drug Administration and Related Agencies as well as Energy and Water Development. The Congressional Hispanic Caucus elected Pastor as its Chairman during the 104th Congress. He is currently on the Agriculture Committee, and on the Committee on House Oversight.

The author wishes to thank Mary Baumann of the U.S. Senate Historical Office for her help with this article. There are a number of excellent web resources about the US Congress including the House and Senate web sites. Another excellent resource for political biographies of all ranks and parties is the Political Graveyard. However the researcher is cautioned that only deceased persons are listed on the site.

<http://politicalgraveyard.com>

## North Jersey Meetings

<http://www.njacs.org>

### NORTH JERSEY EXECUTIVE COMMITTEE MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Executive Committee Meeting to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting and to become more involved in section activities.

**Date:** Monday, November 27, 2006

**Time:** 6:00 PM (new time)

**Place:** Fairleigh Dickinson University College at Florham Hartman Lounge, the Mansion Madison, NJ

**Cost:** \$5.00 - pizza dinner

Directions: can be found at [view.fdu.edu/default.aspx?id=238](http://view.fdu.edu/default.aspx?id=238)

Reservations: call 732-463-7271 or email [njacsoffice@aol.com](mailto:njacsoffice@aol.com) prior to **Wednesday, November 22, 2006**.

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Dinner at the Section Meeting is payable at the door. However, if you are not able to attend and did not cancel your reservation, you are responsible for the price of your dinner.

### 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, November 2, 2006**, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact [vjkuck@yahoo.com](mailto:vjkuck@yahoo.com), if you plan on attending this meeting.

### MASS SPECTROMETRY DISCUSSION GROUP

Dr. Guodong Chen  
Schering-Plough Research Institute  
NJ ACS MSDG Early Career Awardee

Professor Brian T. Chait  
Rockefeller University  
NJ ACS MSDG Distinguished Contribution in MS Awardee

**Date:** Wednesday, November 8, 2006

**Times:** Social Hour 5:00 - 6:00 PM  
Dinner 6:00 - 7:00 PM  
NJACS-MSDG Announcements and Technical Presentations 7:00 - 9:00 PM

**Place:** Somerset Marriott  
110 Davidson Avenue  
Somerset, NJ

Please register on-line at [www.njacs.org/ms](http://www.njacs.org/ms). No admission charge.



### NORTH JERSEY CHROMATOGRAPHY GROUP

#### Monolithic Columns – Past, Present, and Future

**Speaker:** Dr. Frantisek Svec  
Department of Chemistry  
University of California, and  
Molecular Foundry

#### Are Modern C18 HPLC Columns Becoming Identical?

**Speaker:** Dr. Richard Henry  
Consultant, Founder of  
Keystone Scientific, Inc.

**Date:** Monday, November 13, 2006

**Times:** Social 5:30 PM

Dinner 6:30 PM

Seminar 7:30 PM

**Place:** Somerset Marriott Hotel  
110 Davidson Avenue  
Somerset, NJ

**Cost:** \$35 for Dinner (\$20.00 for Students) Open seating for those not attending the dinner

Reservations: Please reserve by **Monday, November 6, 2006**. Pre-registration is required.

To register online, go to [www.njacs.org](http://www.njacs.org), click on chromatography.

Or phone: David Kohler, ES Industries, 856-753-8400



### TEACHER AFFILIATES

#### Executive Committee Meeting

**Date:** Monday, November 13, 2006

**Time:** 4:30 PM

**Place:** Chatham High School  
255 Lafayette Avenue  
Chatham, NJ

Contact: Diane Krone at 201-385-4810 or [kroned@optonline.net](mailto:kroned@optonline.net)

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## NORTH JERSEY GROUP OF SMALL CHEMICAL BUSINESSES

### ChemStewards Program, An Environmental, Health, Safety, and Security Initiative (EHS&S)

Speaker: Joseph Acker  
President  
Synthetic Organic Chemical  
Manufacturers Association  
(SOCMA)  
Washington, D.C.

In 2004 SOCMA assembled a task force of members to assess the unique needs of the entire membership in the development of a comprehensive Performance Improvement Program strategy. The membership stated that they want an EHS&S program that provides maximum flexibility and fit-for-purpose utility. The members also stated that they wanted a program that was applicable, appropriate to the size, complexity and diversity of the individual member operations. Based on the work of the task force, and approved by the Board of Governors, a decision was made by SOCMA to develop its own performance improvement program that better meets the needs of the members and smaller chemical companies.

Here is your chance to get from Joe Acker a well-timed overview of the ChemStewards program and how it has emerged since its introduction. During this presentation, you will learn how a flexible EHS&S management system like ChemStewards program can benefit small chemical manufacturers. In particular, you will hear comments on the core principles of the ChemStewards program that are common to all three tiers of participation and focus on performance improvement. These core principles are stakeholder communications, product stewardship, EHS considerations in operating and planning, employee training and awareness, and sustainability.

Joseph Acker was appointed president of SOCMA in March 2003. He previously served as president and CEO of DanChem Technologies and president of Hickson DanChem Corporation in Virginia. He is the immediate past chairman of SOCMA's Board of Governors and served as its treasurer and vice chairman. He is a member of various professional associations and serves on numerous civic boards.

**Date:** Thursday, November 16, 2006  
**Times:** Networking, Open Bar 5:30 PM  
Dinner, Attendee Introductions  
6:30 PM  
Presentation 7:15 PM

Place: Q&A, Networking, Dessert 8:00 PM  
Holiday Inn, North  
Frontage Rd.  
Newark, NJ  
On north side of Newark Airport

Registration: Advance Registration is required. Reserve electronically at our web site: <http://NJChemBus.org>.

Reserve by: **November 13, 2006**. Please reserve early.

Cancellation Policy: Please cancel 48 hours before the meeting, or be invoiced.

Check payable to, and Mail Payment to: NJ Group of Small Chemical Businesses, P.O. Box 423, Summit, NJ 07902.



### NORTH JERSEY CHROMATOGRAPHY GROUP

Please, visit North Jersey Chromatography Group session at EAS 2006:

#### Tackling Difficult HPLC Problems with Alternative Detectors

*Dr. Anne Kelly*  
Bristol-Myers Squibb  
"Applications of Charged Aerosol Detection in Pharmaceutical Development"

*Dr. Peter Tattersall*  
Bristol-Myers Squibb  
"The Application of HPLC Chemiluminescence Nitrogen Detector in Pharmaceutical Analysis"

*Dr. Ehab Ibrahim*  
Sandoz of Novartis  
"GPC in Pre-formulation by RI and Big Molecules by UV"

*Dr. Bart Emary*  
Merck Research Laboratories  
"Characterization of Reactive Drug Metabolites and Other Analytical Applications in Drug Discovery Using a HPLC/Porous Flow-Through Electrode/Mass Spectrometer"

*Charles Phoebe*  
Waters Corporation  
"Choosing Detectors and Combination of Detectors for Maximizing Information from UPLC Separations"

**Date:** Thursday, November 16, 2006  
**Time:** 9:00 AM to 12:00 Noon  
**Place:** Double Tree Hotel.

## North Jersey American Chemical Society Organic Topical Group

Presents

### Discovery, Selection, and Development of Drug Candidates: A Senior Leadership Perspective

Friday, November 17, 2006

Dr. Roy Vagelos (Retired Chairman and CEO, Merck & Co., Inc.)  
"The Changing Pharmaceutical Industry"

Dr. Carl Decicco (Bristol-Myers Squibb)  
"Innovation in Drug Discovery"

Dr. Paul Feldman (GlaxoSmithKline)  
"New Treatments for Type 2 Diabetes: GlaxoSmithKline's DPP4 Inhibitor and PPAR Pan Agonist"

Dr. Malcolm MacCoss (Merck & Co.)  
"EMEND® (Aprepitant) a potent, orally active Substance P Antagonist for the treatment of Chemotherapy Induced Nausea and Vomiting (CINV), from the medicinal chemistry bench to the clinic"

Dr. Bruce Roth (Pfizer)  
"The Discovery and Development of Lipitor"

Registration will begin at 12:00, the symposium at 1:00, reception at 5:30, dinner at 6:30. **Please note that Dr. Roy Vagelos' talk will be at 7:30 pm.**

Location: Somerset Marriott, 110 Davidson Ave., Somerset, NJ 08873

For directions, information and further details please visit our website:

[www.njacs.org/organic.html](http://www.njacs.org/organic.html)

Michael M. Miller, (Chair), Bristol-Myers Squibb  
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Jianshe Kong, (Treasurer), Schering-Plough  
Lawrence Williams, Rutgers University

Amjad Ali, Merck  
Binh Vu, Hoffmann-La Roche  
Dong Xiao, Schering-Plough

Due to limited seating, registration and payment are required by November 1, 2006.

Registration fee: Symposium, Reception, and Dinner \$95.00  
Students or Post-docs: Symposium, Reception, and Dinner \$75.00

Please check one: Symposium and Dinner (\$95) ... \_\_\_ Student Discount (\$75)... \_\_\_  
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Check if you are a student or post-doc... \_\_\_

Name \_\_\_\_\_ Affiliation \_\_\_\_\_

Address \_\_\_\_\_ E-mail \_\_\_\_\_

To register this is for the **November 17, 2006** event only:

Send above registration information with a check made payable to "North Jersey Section ACS" to:

Dr. Jianshe Kong, Schering-Plough Research Institute, 2015 Galloping Hill Rd.,  
Mail Drop K-15-2-2800, Kenilworth, NJ 07033 • E-mail: [jianshe.kong@spcorp.com](mailto:jianshe.kong@spcorp.com)

## 2006 CECIL L. BROWN LECTURE

The New Brunswick Department of Chemistry and Chemical Biology at Rutgers, The State University of New Jersey, will host the 2006 Cecil L. Brown Lecture sponsored by the North Jersey Section of the ACS.

### Stretching Infrared Spectroscopy Pinpoints Fluctuations of Proteins and Peptides

Lecturer: Prof. Robin M. Hochstrasser

Date: Thursday, November 30, 2006  
Times: Pre-Seminar Social Time 10:30 AM  
Seminar 11:00 AM  
Reception/Luncheon 12:00 noon  
Meetings with Interested Scientists 1:30 PM  
Place: Rutgers University  
Fiber Optics Auditorium  
101 Bevier Road, Busch Campus  
Piscataway, NJ 08854.  
<http://www.njacs.org/cecilbrown2006.html>  
<http://chem.rutgers.edu>

## CHEM LUMINARY AWARDS AT ACS SAN FRANCISCO MEETING

North Jersey wins "Outstanding Local Section Career Program Award."



Here is a photo of Val Kuck accepting the award from the Chairman of the Committee on Economic and Professional Affairs and Kathy Hunt, President-Elect of the ACS.

North Jerse also won "ACS Student Affiliates Chapter Interaction Award."



Here is a photo of Bill Suits accepting the award from Joe Heppert, Chair of the Society Committee on Education, and Kathy Hunt, President-Elect of the ACS.

For related article, see *Governance Report from San Francisco ACS National Meeting* by Stephen Waller starting on page 21 of this issue.

## PROJECT SEED

North Jersey high school students show that you don't need to be a rocket scientist to be a chemist

By Stephen Waller

PISCATAWAY, NJ – Here is the toughest question for high school students, "What are you going to do after you graduate?" That question is even more difficult for students in economically disadvantaged school districts. Many times, they do not see themselves aspiring to a fruitful career in chemistry, even when they live in a geographical area of the country that boasts chemistry laboratories from nearly every major pharmaceutical company in the world. Additionally, numerous opportunities exist for chemistry careers in local perfume companies, nanotechnology companies, environmental labs, forensic labs, and universities.

Over the past ten years, the tide has been changing in North Jersey to lift up the chemistry career expectations of hundreds of high school students involved in the American Chemical Society Project SEED (Summer Educational Experience for the Economically Disadvantaged) program. This year alone, Susan Fahrenholtz and Allene Johnson, both from the North Jersey Section of the American Chemical Society, have been responsible for the placement of more than 100 high school students in industrial and academic chemistry laboratories to conduct summer research. As volunteers in a not-for-profit organization, they have accomplished what seems to be impossible with individual, corporate, and institutional financial support.

"Project SEED has changed the lives of more than 500 high school students, who did not previously envision themselves being successful in science", stated Mrs. Susan Fahrenholtz, Project SEED Director for North Jersey. "Every year, we have been lucky to be able to support summer research experiences for more students thanks to the time donated by great volunteer mentors and the money donated by local corporations and institutions."

The students represent 19 high schools in North Jersey. Most of the students are just completing their junior year, with only a minimal background in chemistry. Still, dozens of volunteer mentors put in eight full weeks of their personal time during the summer to help these students gain real-life experiences in chemistry research laboratories.

"I have really enjoyed participating as a mentor for the Project SEED program," said Professor John Sowa, from Seton Hall University in South Orange, NJ. "The students are very motivated, and this has led to productive research experiences for both the students and me. The key to this success is in the project design. One successful project used microwave ovens. Although these are normally used for cooking, the student, Megha Kandhari (Emerson High School, Union City, NJ) was enthusiastic about learning how these can be used for doing chemistry. This project resulted in a journal publication for the student, and she also won a \$5000 scholarship from the American Chemical Society for her first year in college. Overall, the benefit of the SEED experience is highest for the students as they are able to learn about chemistry and experience the challenge of research."

Students, like Mr. Ledawn Quadrack Hall from East Orange High School have found this experience very positive for their career visions. "I really enjoyed my summer working in Project SEED," said Mr. Hall. "It gave me insight into higher education and what working in a real science environment is like."

All of the students involved in the Project SEED program receive counseling to learn how to get accepted into college and how to apply for tuition grants and loans. More than 90% of them have gone on to college, and a majority continue their involvement in science. After college, these students have found employment as high school teachers and researchers in major pharmaceutical and health care companies.

Some even achieve more advanced degrees, like Mr. Paulo Lizano from Union City, NJ, who received his Bachelor's degree in Biochemistry after his involvement in Project SEED. Mr. Lizano is currently starting the M.D.-Ph.D. program at the University of Medicine and Dentistry of New Jersey. He stated, "Being Hispanic and growing up in a low income household made it difficult to even think about going to college. [Project SEED] helped me see that I could succeed in college and go on to a career in science."

After completing their summer research, over 100 high school students in the program participated in the annual poster contest at Seton Hall University on September 25, 2006. There, they got to tell everyone

(continued on page 14)

## PROJECT SEED

(continued from page 13)

about what they did and learned during the summer. Professional scientists from every area of chemistry asked the students questions and then chose winners for best presentations. The evening was topped off with a banquet for the students, their parents, and their mentors. This year's Project SEED poster session was a huge success; scientists, press, and the members of the public attended and discovered the transforming power of chemistry in our community.



## SOME RESULTS FROM THE RECENT ACS MEMBER SATISFACTION SURVEY

By Stephen Waller

Each year, the American Chemical Society's national office in Washington, DC, conducts a variety of surveys of its members. These surveys help the departments in the ACS better understand its members. Recently, a member satisfaction survey of 3,542 members, chosen at random, was conducted to

determine what services are most used and appreciated nationally and locally. A summary of the results for local sections is available on the North Jersey Section web page. Click on the "Membership Survey" link on [www.njacs.org](http://www.njacs.org).

As 2006 chair of the North Jersey Section, I am using this information to help direct our efforts to serve best our members. Here is an example statement from this summary...

"Analysis by degree level shows that members with bachelor's degrees are the least likely to have attended local section activities/programs (27.2%) but the most likely to report that they might be interested (41.4%)."

What are your ideas for new programming in our section that would be of benefit to our members with bachelor's degrees?

As the end of 2006 is near, the section's program planning committee is working on the details for next year's events, and all ideas for useful events are welcome. Please send me an email ([waller@njacs.org](mailto:waller@njacs.org)) with your ideas and ask for details on how to attend our section's program planning committee meeting on November 4, 2006.



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## New York Meetings

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

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**Date:** Friday, November 3, 2006

**Times:** Registration and coffee 5:00 PM

Panel Discussion 5:30 PM

Pizza social 6:30 PM

**Place:** Dickinson Hall, Room 4468

Fairleigh Dickinson University

Teaneck, NJ

**Cost:** Panel discussion is free. The dinner cost is \$10 and \$5 for students.

Reservations: Dr. Mihaela Leonida (201) 692-2338, e-mail: [mleonida@fdu.edu](mailto:mleonida@fdu.edu) by **October 30, 2006.**



### CHEMICAL MARKETING & ECONOMICS GROUP (CM&E)

#### The Future of Natural Gas

**Speaker:** Andrew Weissman  
Senior Managing Director  
FTI Consulting, Inc.  
Washington, DC

**Date:** Thursday, November 16, 2006

[Note change from first Thursday]

**Place:** The Chemists' Club

40 West 45th Street

New York, NY

**Times:** Cocktails 11:30 AM

Luncheon 12 noon

Presentation 1:15 PM

**Fees:** \$40 discount price for Members who reserve by **Tuesday, November 14th** before the meeting (12 noon). \$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 (718) 961-8958 or via e-mail to: [cmegroup@yahoo.com](mailto:cmegroup@yahoo.com). You can also pay online (via PayPal): go to our Website: <http://www.nyacs-cme.org/>.



### HIGH SCHOOL TEACHERS TOPICAL GROUP

#### Energy Plans for the 21st Century

**Speaker:** Dr. John L. Roeder  
Calhoun School  
New York, NY

**Date:** Friday, November 17, 2006

**Time:** Social and Dinner 5:45 PM

**Place:** Caffe Pane e Cioccolato  
10 Waverly Place at Mercer Street  
(south-west corner)  
New York, NY

No reservations required  
(You eat, you pay cash only, no credit cards.)

**Time:** Meeting 7:15 PM

**Place:** New York University

Silver Center Room 207

32 Waverly Place (south-east

corner Washington Sq. East)

New York, NY

Security at NYU requires that you show a picture ID to enter the building. In case of unexpected severe weather, call John Roeder, 212-497-6500, between 9 AM and 2 PM to verify that meeting is still on; 914-961-8882 for other info.

Note: Street parking is free after 6:00 PM. For those who prefer indoor attended parking, it is available at the Melro/Romar Garages. The entrance is on the west side of Broadway just south of 8th Street, directly across from Astor Place. It is a short, easy walk from the garage to the restaurant or meeting room.

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**Program**

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- Program, as of Wednesday, September 6th •

**8:00 - 9:00 AM  
REGISTRATION & COFFEE**

**9:00 - 10:30 AM  
TUTORIAL SESSIONS**

Session Chair: Dr. Marco J. Castaldi, Earth & Environmental Engineering Dept., Columbia Univ., New York, NY.

Tutorials: may be presented on the following technologies-waste to energy; fuel cells; bio-fuels; mechanical energy conversion (wind/tidal power); and solar energy (photo-voltaics).

Waste to Energy: Dr. Stephen Paul, Senior Research Physicist, Princeton University, Princeton, NJ and Principal, Trenton Fuel Works, Trenton, NJ

Biofuels: Dr. Devinder Mahajan, Group Leader, Advanced Fuels, Brookhaven National Laboratory, Upton, NY

**10:30 - 10:40 AM  
MORNING BREAK**

**10:40 AM - 12:10 PM  
CASE HISTORIES**

(True Stories of small businesses)

Session Chair: Ms. Gianna Arnold, Esq., Miles & Stockbridge, PC, Columbia, MD

Biodiesel: Brent Baker, CEO, Tri-State Biodiesel LLC, Brooklyn, NY

Tidal Power: Trey Taylor, President & Head of Market Development, Verdant Power, LLC, Arlington, VA

Energy from Waste: John Waffenschmidt, Director of Business Development, Coventia Energy Corp., Fairfield, NJ

**12:10 - 2:00 PM  
LUNCH BREAK**

Time to Visit Exhibitors

**2:00 - 4:00 PM  
PANEL DISCUSSION**

Session Chair: Dr. Herbert W. Cooper, President, Dynalytics Corp., Hicksville, NY

Panel Members: will include representatives from the necessary entities to realize a successful project: an owner willing to take technical and financial risks; a credible technology licensor; a credible engineering contractor; financing from either investors or lenders; permitting organizations, such as a state regulatory body, and community or political support groups.

**3:00 - 3:10 PM  
AFTERNOON BREAK**

**4:00 - 5:00 PM  
RECEPTION**

Time to Visit Exhibitors

**Date: Thursday, November 30, 2006**

**Time: 9:00 AM - 5:00 PM**

**Place: 7 World Trade Center  
250 Greenwich Street (40th Floor)  
New York, NY**

**Cost: for those registering after 10/1/06  
\$100 for members of sponsoring organizations; \$125 for others.**

Exhibitor booths — \$500 for corporations; \$250 for non-profits.

Details at: [www.nyas.org/alternativeenergy](http://www.nyas.org/alternativeenergy).  
Questions: 718-961-8958.

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- NYAS, New York Academy of Sciences.



**BIOCHEMICAL TOPICAL GROUP  
— JOINT MEETING WITH THE  
NYAS BIOCHEMICAL  
PHARMACOLOGY DISCUSSION  
GROUP**

**Multiple Targets for Alzheimer's Disease: Gamma-Secretase and Tau**

**Organizers:** Donna Barten  
Bristol-Myers Squibb  
Barbara Petrack  
Drew University, and  
Barbara Tate  
Pfizer GR&D

**Speakers:** Mark Shearman  
Merck Research Laboratories  
Thomas Lanz  
Pfizer GR&D  
Michael Wolfe  
Brigham & Women's Hospital  
David Holtzman  
Washington University  
Frank LaFerla  
University of California, Irvine

(continued on page 18)

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## BIOCHEMICAL TOPICAL GROUP

(continued from page 17)

Peter Davies  
Albert Einstein College of  
Medicine  
Michael Hutton  
Mayo Clinic Jacksonville  
Leonard Petrucelli  
Mayo Clinic Jacksonville

**Date:** Tuesday, December 5, 2006  
**Time:** 9:00 AM - 5:30 PM  
**Place:** New York Academy of Sciences  
7 World Trade Center  
250 Greenwich Street - 40th Floor  
New York, NY

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

NYAS Members and BPDG Affiliates may attend BPDG meetings free of charge. Non-members may attend for a fee of \$20 per event; Student Non-members for \$10. To become a Member of the Academy, visit <http://www.nyas.org/landing.html>



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## Call For Nominations

### 2007 BAEKELAND AWARD

The North Jersey Section of the American Chemical Society is soliciting nominations for the 2007 Leo Hendrik Baekeland Award. The award is sponsored by Union Carbide Corporation and consists of a gold medal and a \$5,000 honorarium. The Section presents the award biannually to commemorate the technical and industrial achievements of Leo Hendrik Baekeland and to encourage younger chemists to emulate his example. The Award is given in recognition of accomplishments in pure or applied chemistry to an American chemist as characterized by the initiative, creativeness, leadership, and perseverance of the individual (indicated by published or unpublished evidence) and who will be under the age of 40 as of Jan. 1, 2006.

Nominations for the Award should include a letter describing the nominee's achievements, a brief biography, and a list of the nominee's more important publications. Re-nominations are encouraged, provided the age requirement is still met. Please submit materials by **Dec. 31, 2006**, to Ambarish K. Singh, Baekeland Award Committee, Bristol-Myers Squibb Company, 1 Squibb Drive, New Brunswick, NJ 08903-0191.

### 2007 LIFE ACHIEVEMENT AWARD OF THE NORTH JERSEY SECTION

The biennial award, funded by Novartis, consists of \$1,000 prize and a plaque. It recognizes a North Jersey chemist or chemical engineer over fifty years of age, for conspicuous achievements in chemistry, not heretofore recognized by any major scientific award.

Please submit nominations and supporting letters to Jiwen Chen, Awards Committee Chair, c/o NJ ACS, 4 Cameron Road, Piscataway, NJ 08854. Tel: 609-818-6319, email: [jiwen.chen@yahoo.com](mailto:jiwen.chen@yahoo.com). (Electronic submission of the nomination package welcomed.) **Nominations must be received by Feb 15, 2007.** Visit <http://www.njacs.org/awards.html> for more information and a list of past recipients.

## Others

### NEW JERSEY INSTITUTE OF TECHNOLOGY — DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE

#### Seminar Series - Fall 2006

**Nov. 1, 2006**  
11:30 AM – 1:00 PM  
Tiernan Hall Rm. 373  
"RNA Polymerase as a Target in Drug Discovery"  
*Dr. Arkady Mustaev*  
Public Health Research Institute  
Newark, NJ

**Nov. 8, 2006**  
11:30 AM – 1:00 PM  
Tiernan Hall Rm. 373  
"Integrated Watershed Management: Theory, Policy and Practice"  
*Dr. Zeyuan Qiu*  
New Jersey Institute of Technology  
Newark, NJ

**Nov. 14, 2006**  
11:30 AM – 1:00 PM  
Tiernan Hall Rm. 373  
"TBA"  
*Dr. Ailan Guo*  
Hoffmann-La Roche  
Nutley, NJ

**Nov. 29, 2006**  
11:30 AM – 1:00 PM  
Tiernan Hall Rm. 373  
"Regional Analyses of the Clean Air Act: Costs, Benefits and Risks"  
*Mr. Keith Silverman*  
Merck & Company, Inc.

Whitehouse Station, NJ and  
New Jersey Institute of Technology  
Newark, NJ

Seminar Coordinators: Dr. Zeyuan Qiu  
973-596-5357 [zeyuan.qiu@njit.edu](mailto:zeyuan.qiu@njit.edu) and  
Dr. Sergiu Gorun 973-596-6595  
[sergiu.m.gorun@njit.edu](mailto:sergiu.m.gorun@njit.edu)

### LABORATORY ROBOTICS INTEREST GROUP

The Mid-Atlantic Chapter of the Laboratory Robotics Interest Group has announced a preliminary meeting schedule for 2006 - 2007. The dates, times, and speakers for each of the upcoming meetings will be posted on the chapter's web site:

[http://lab-robotics.org/Mid\\_Atlanctic/](http://lab-robotics.org/Mid_Atlanctic/)

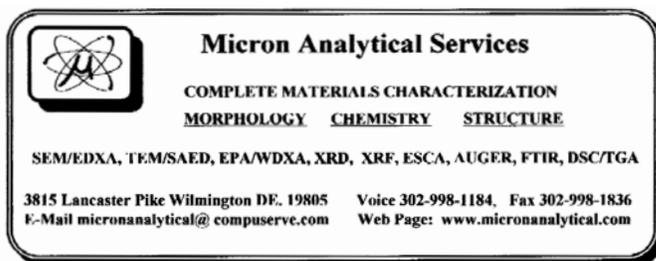
#### November 2006: Compound Management.

The modern drug discovery process is only as good as the compounds that feed into it. This meeting allows drug discovery professionals to come together for discussions of compound management and ways to protect their collections from degradation and decay.

#### March 2007: Emerging Technologies and Third Annual Student Poster Contest\*

The Emerging Technologies meetings are designed to bring information about the newest advanced laboratory technologies to the practicing scientist. In addition to hardware, topics at this meeting have also included the US Patent system and advances in information technology for the laboratory.

(continued on page 20)



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## LABORATORY ROBOTICS

(continued from page 19)

### May 2007: Annual Technology Exposition.

This is the largest meeting of the year with 400 to 600 bench scientists and automation professionals attending. Vendors display the latest and greatest in advanced laboratory technologies. A night of exciting science and great food, all free!

### September 2007: ADME / TOX.

At least 90% of all compounds entering the pharmaceutical pipeline drop out because they are toxic, or fail to be absorbed by the body. The ADME / TOX technologies can help screen out unsuited compounds and insure a higher success rate for drug leads.

\*Please note: The student poster contest will feature cash prizes and is open to all students in engineering, chemistry, biology, and the physical sciences. Content related to automation is encouraged but is not required.

All meetings are free and open to all.

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Anyone with an interest in the latest laboratory technologies, information processing, and automation is encouraged to join the chapter. For additional information please contact Kevin Olsen, Publicity Chairperson, LRIG Mid-Atlantic, 973-655-4076 or [OlsenK@Mail.Montclair.edu](mailto:OlsenK@Mail.Montclair.edu)

### BROOKLYN COLLEGE OF THE CITY UNIVERSITY OF NEW YORK — CHEMISTRY DEPARTMENT

#### Colloquium - Fall 2006

Friday, November 3, 2006

TBA

Prof. Benjamin Chu  
SUNY Stony Brook  
Host: Kobrak

Friday, November 10, 2006

TBA

Prof. Frederick Arnold  
SUNY Binghamton  
Department of Chemistry  
Binghamton, NY  
Host: Kobrak

Friday, November 17, 2006

TBA

Prof. Song Chung  
William Paterson University  
Host: Kobrak

Friday, December 8, 2006

"Palladium Catalyzed Nucleoside  
Modifications: From Structural Diversity to  
Understanding Catalysis"  
Prof. Mahesh K. Lakshman  
City College-CUNY  
Host: Greer

Times: Colloquium 2:30 PM  
Social Hour 3:30 PM

Place: Brooklyn College  
Room 432 Ingersoll Extension  
2900 Bedford Avenue  
Brooklyn, NY

### NEW REFRESHER WORKSHOP IN BIOCHEMISTRY OFFERED AT MSU

Montclair State University's Chemistry and Biochemistry department has been conducting a workshop in biochemistry for pharmaceutical scientists who wish to review important concepts and learn about new developments in the field. Eight scientists

from a major New Jersey pharmaceutical firm are currently enrolled in the six-session course which includes a review of biochemistry concepts, an introduction to molecular drug design, and drug discovery assays. Drs. James Dyer, John Berger, and Jeffrey Toney are teaching the classes.

The workshops will be available again during the winter of 2007. Inquires about future sessions should be addressed to:

Dr. Jeffrey Toney,  
Chemistry and Biochemistry  
Montclair State University, Montclair, NJ  
(973) 655-6864

### GOVERNANCE REPORT FROM SAN FRANCISCO ACS NATIONAL MEETING

By Stephen Waller

As 2006 chair of the North Jersey Section, I am proud of those involved in our governance locally and nationally. We have numerous dedicated volunteers who run section and national programs that benefit chemists and the chemical profession. Some of these volunteers are councilors, who are elected by the members to represent them in the national governance of the ACS. For our section, 15 councilors attend the ACS national meeting and served on national committees. When a councilor can not attend a national meeting, then one of 15 alternate councilors replaces that councilor for that meeting.

Here is a summary of the reports provided to me from the councilors who represented your interests at the ACS National Meeting in September in San Francisco.

Jeannette Brown reported from the meeting directly to the members through the section's first web blog ([njacs.blogspot.com](http://njacs.blogspot.com)). She updated this blog with text and pictures within minutes of important events at the national meeting. Take a moment and check it out! She attended the Committee on Education as an associate member and the Women's Chemist Committee and the Committee on Minority Affairs as a visitor. Jeannette continued her efforts to insure that all of our members are treated equally, with her involvement as a member on the Percy Julian Symposium taskforce. Her 25-years of service as a councilor was recognized with a plaque at the full council meeting on Wednesday morning. She asks that everyone get involved in discussions that are important to our profession at the section's blog.

Maureen Chan continued to serve as a member on the Budget and Finance Committee at this meeting. She was very involved in organizing the new volunteer leadership training workshops, and

she served as an observer during workshops at this meeting, suggesting changes to make these workshops the most effective for our members. She reported that the ACS Legislative Action Network is growing and was emphasized at this meeting by the current ACS President, Ann Nalley, and the President-elect, Katie Hunt.

Alan Cooper attended the Local Section Activities Committee, in which he serves as chair of the Tools, Technology, and Operations subcommittee. During this meeting, he played an important role in discussions on how to improve local section activities stemming from the ACS summit that was held May 5-7, 2006 in Washington, DC. He also represented our section at the ChemLuminary Awards during this meeting.

Jackie Erickson, our section's immediate past-chair, served on the Membership Affairs Committee as a member and its Retention and Recruitment Subcommittee. She was involved in discussions about a petition to establish multi-years dues and a report on student affiliate member status. These issues are still being debated in the governance of the ACS. She reported that this committee voted to expand the membership recognition certificates to include 60-year members in addition to the current 50-year member certificates sent to local sections. Jackie also represented our section at the ChemLuminary Awards, and she attended the Women's Chemist Committee (WCC) as a visitor. She continued to help with WCC events at this meeting.

Susan Fahrenholtz served as a member of the Committee on Economic and Professional Affairs. She devoted time to the ACS Project SEED program at this meeting, attending the Project SEED Committee meeting and assisting two North Jersey Project SEED students to get funds from the national ACS to attend this meeting. She represented our section at the ChemLuminary Awards. She reported that the ACS Office of Legislative and Government Affairs will be training local ACS leaders on how to interact with public officials. At the District III councilor caucus, Susan participated in a debate about an ACS governance petition.

Stan Hall served as a member of the Committee on Meetings and Expositions, where he chaired the Logistics sub-committee and was a member of the Technical Program sub-committee. He led a discussion on some of the issues dealing with "no show" presenters at national meetings. He also attended the Division Activities Committee as a liaison. Stan was very involved in Organic Division events at this meeting, as he has been for many years. His 25-years of service as a councilor was recognized with a plaque at the full council meeting on Wednesday morning.

Bettyann Howson attended the Regional Meeting Programming breakfast, where she was involved in discussions on how to communicate lessons learned from MARM 2005 to other regional meet-

(continued on page 22)

## GOVERNANCE REPORT

(continued from page 21)

ing organizers. She also participated in Division of Chemical Education events, working to increase high school teacher membership in the ACS. The division presented a 1-day symposium "Inquiring Minds", which was focused on high school teaching, and they are actively seeking more high school teachers to join the division's executive committee. Bettyann also attended a pilot version of the ACS leadership workshop "Encouraging Volunteers". This workshop is in the development stage, and will be used as part of an entire leadership program that will be useful for new ACS leader as well as more experienced leaders. It will also help ACS volunteers be more effective leaders in their professional jobs.

Anne Kelly interacted with job seekers at the Chemjobs Career Center. She reported that the free job seeker - employer networking luncheon was a great idea and worked well. She also participated in the District III councilor's caucus during the meeting and attended a variety of technical sessions.

Diane Krone, our section's chair-elect, attended the Regional Meeting Program breakfast and numerous chemical education events at the meeting. She reported that the ACS is providing new funding for green chemistry programs and for a Committee on Professional Training workshop with Hispanic and Native American serving institutions.

Valerie Kuck attended the Council Policy Committee as a member. She also participated in the Town Hall Meeting. At the full council meeting, she participated in the discussion of how to better involve younger chemists in the ACS. She spent every free minute helping job seekers at the Chemjobs Career Center, even when she was exhausted. She conducted resumes reviews, workshops, and provided professional career counseling as an ACS Career Consultant. She reported that this is the first meeting where the career workshops were being videotaped, and these videos will be made available to local sections to increase the career assistance for all ACS members. At the ChemLuminary Awards, she received the Local Section Careers Program Award on behalf of our section.

Les McQuire spent his Saturday afternoon in San Francisco participating in an ACS community outreach program at a food pantry. He attended the Local Section Activities Committee as a member and chaired the Local Section Alliances sub-committee. For his dedicated service to this committee, he was presented with a service award. He also contributed to a new local section PR video. He attended the "Heroes of Chemistry" event sponsored by the ACS Corporation Associates (CA), on which he chaired the Programs sub-committee at this meeting. He reported that CA is increasing its efforts to collaborate with divisions on relevant programming at national meetings and

predicts the CA-Medicinal Chemistry "Heroes" event will be the biggest technical event at the Boston ACS National Meeting next year. He attended the Council Policy Committee and was elected by the full council at this meeting to serve on the Committee on Committees.

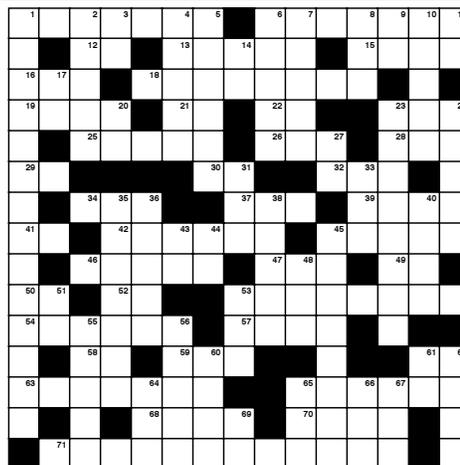
Bill Suits represented the section members at the ChemLuminary Awards, accepting the award for Local Section - Student Affiliate Interaction. He attended the Committees on Budget and Finance, Science, and Meetings and Expositions as a visitor, the Committee on Public Relations and Communications as an associate member, and the Committee on Professional and Member Relations as a liaison. He was actively involved in national meeting thematic programming discussions, and reported that this effort will increase multi-disciplinary teamwork at future national meetings. He spent countless hours volunteering at the Chemjobs Career Center, where he reviewed resumes for member and provided professional career advice as an ACS Career Consultant. He pointed out that there has been a shift in ACS career services from just helping members find jobs to helping them with career development. He also reported that the Polymers and the Biochemical Technology Divisions videotaped some of their sessions, and these will be available for viewing on the division web pages, which are accessible through the division link on chemistry.org.

Stephen Waller attended the Committee for Economic and Professional Affairs as a member, the sub-committee on Employment Services as a member, and the Committee on Meetings and Expositions as a liaison. He reported that the Chemjobs Career Center had a decrease in job seekers and an increase in employers for the second meeting in a row. Employers now have access to the internet in the interview booths. The final national meeting total attendance was 15,603 with a record of 9,967 papers presented. He also chaired the District III councilor's caucus. He attended the Regional Meeting Programming breakfast, where he distributed CD-ROM disks containing useful files from MARM 2006 that can be used for any future regional meetings. He participated in the leadership training workshops, and assisted in presentation of one workshop. These workshops are in the pilot stages. A total of 16 workshops will cover every area of leadership development for new leaders to experienced leaders. They are slated for full use in 2008, and they will be available for volunteer leaders for free with web access as well as facilitated events.

Christine Vilardi, George Heinze, and Allene Johnson participated in the full council meeting on Wednesday morning.

If you are interest in becoming a councilor and representing the section's members in the governance of the ACS, please contact me via email at [waller@njacs.org](mailto:waller@njacs.org). This is a great way to make a difference in the future of the chemical profession!

## PUZZLE - Periodic Table Tapping - by Mark S. Lesney



### ACROSS

1. Ghosts arising in distill of the night?
6. Swamp gas
12. "By the pricking \_\_\_ my thumbs, something wicked..."
13. \_\_\_ Scarum
15. Goes with Id[io]s
16. Of iniquity or thieves
18. Waxed satellite (2 wds)
19. Sacred bird in family *Threskiornithidae*
21. Z=57
22. Unit of wt. for blowing up monsters, or Big Sky st.
23. Digital assistance Frankenstein could use today to make a better monster, briefly
25. Like the text of a DNA message
26. Seance ghosts knock once for
28. Alcoholic beverage or a "fellow, well-met" of the Royal Society who's been over-celebrating 53 down?
29. Z=42
30. Moon goddess element, briefly
32. Anglophilic heat meas.
34. Creepy condensate?
37. Initiation one of 45 across, or Octavian month, for short
39. A turf fungicide or the prefix for midlevel clouds
41. Sun's No. 2 element
42. A distiller's quip?
45. DNA triplet
46. Servants of 71 across (Possibly clones?)
47. High, craggy hill or rocky outcrop
49. Refractometer meas., or the Ocean st.
50. Unit of meas. for wavelength absorbance (abbr.)
52. Anno domini, briefly
53. Comes alive at 18 across
54. Results of your experiment if you forget to press 69 down and your lab tech did the run without checking
57. Killer whale
58. Pythonian "Knights who say \_\_\_ are probably not referring to element 28, briefly
59. Bristle-like appendage (planty)
61. Unit of magnetic flux named in honor of 24 down's "summoner"
63. "Count" him among the more severely UV-challenged.
65. "Helios" element
68. What you need to do after your experiment is 54 across
70. \_\_\_ 51
71. Quintessential mad scientist
11. Einsteinium, for short
14. Goosebumps" author: \_\_\_ Stine
17. DNA dye, for short, or first two initials of Charlotte's Web creator.
20. Sulfur monoxide formula
23. Witch's beaker?
24. Maxwell's fiend
27. Show me the antimony, briefly
31. Van Gogh's "love letter"
33. Chinese "Way"
35. Chemistry premeds dread?
36. Small quartz formation covered with CaCO<sub>3</sub>
38. \_\_\_ catastrophe
40. "Double, double, \_\_\_ and trouble; fire burn and 23 down bubble."
43. Very small amt. or wooded path, briefly
44. Fountain tip element, briefly, or Z=76
45. \_\_\_ from the Black Lagoon
48. Hobbit enemy
51. Beckman's famous spectrophotometer
53. Got the Nobel prize
55. Levitated or where 34 across dissolves (2 words)
56. Dr. Who's nemesis
60. Swamp travel
61. Micro letter
62. Skeleton seer
64. A grave container
65. Ringed planet, briefly
66. Flower necklace
67. Swedish devil (or an air-moving device)
69. First button to check when your spectrometer doesn't run

### DOWN

1. Exorcist salt (2 words)
2. Salty bondage?
3. Radiofrequency, briefly
4. Ultima \_\_\_ or Inuit ancestors
5. Photosynthetic foodstuffs du jour?
6. Tut AND his mother
7. Not-yet-invented device a scientist might need upon being told by the chair of the department that his or her bitter rival from the lab next door 53 D: "\_\_\_ control"?
8. Egg source
9. Z=47
10. Point in a lens where light paths cross

**Solution on page 26.**

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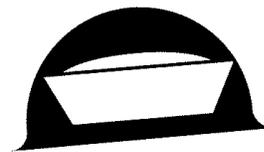


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