

CHEMISTRY AS A LIFE SCIENCE SYMPOSIUM XIII



Amir H. Hoveyda
Boston College



Robert H. Grubbs
Caltech



Koji Nakanishi
Columbia U.

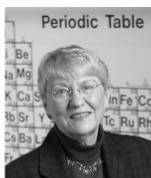
**Paul Robeson
Campus Center**

**Rutgers, the State University
of New Jersey, Newark**

**Friday,
March 17, 2006**



Matthew D. Shair
Harvard U.



Madeleine M. Joullie
U. of Pennsylvania



F. Dean Toste
UC Berkeley

<http://njacs.org/caals2006.html>

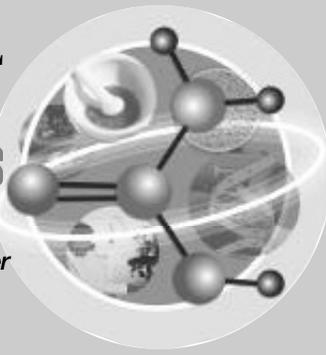
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PERIODICALS POSTAGE

2006 EASTERN ANALYTICAL SYMPOSIUM Call for Papers

November 13-16, 2006
Garden State Exhibit Center
Somerset, NJ

Deadline – April 15, 2006



Celebrating the Diversity of Science

The Eastern Analytical Symposium is the second largest meeting in the United States dedicated to the needs of analytical chemists and those in the allied sciences. Please help us to make the 2006 EAS the best ever—be a part of the program by contributing your own papers for inclusion in the oral or poster sessions.

We invite you to submit a contributed presentation for the 2006 EAS Technical Program. Please submit abstracts through our web site at www.eas.org, after March 1, and follow the instructions for preliminary abstract submission. **Invited speakers should not submit preliminary abstracts to EAS, although your session organizer may request one for his/her use.** All preliminary abstracts must be submitted electronically via the EAS web site at www.eas.org. The abstract submission deadline is April 15, 2006. Please visit our web site for a list of session topic areas.

Please carefully review the following information:

- All preliminary contributed abstracts will be submitted electronically in 2006. No faxed, e-mailed, or mailed preliminary abstracts will be accepted.
- The title of the presentation and the list of authors that you submit are final, and may not be changed.
- The preliminary abstract that you submit will be considered to be your final abstract for use in the abstract book for the 2006 Eastern Analytical Symposium.
- All preliminary abstracts will be acknowledged via e-mail.
- Presenting authors of contributed submissions will be notified in June 2006 of the status of the abstract and its session assignment.

For information on the technical program at the 2006 EAS, please contact:

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P.O. Box 370
Walkersville, MD 21793



www.eas.org

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THE Indicator

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February Calendar

NEW YORK SECTION

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Chemical Marketing & Economics Group
See page 8.

Thursday, February 2, 2006

Long Island Subsection
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Friday, February 10, 2006

High School Teachers Topical Group
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Friday, February 10, 2006

Hudson-Bergen Chemical Society
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Tuesday, February 28, 2006

Biochemical Topical Group
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NORTH JERSEY SECTION

Thursday, February 2, 2006

Careers in Transition
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Tuesday, February 7, 2006

Mass Spectrometry Discussion Group
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Wednesday, February 8, 2006

ChemTAG
See page 13.

Monday, February 13, 2006

Teacher Affiliates Executive Committee
See page 14.

Monday, February 27, 2006

No. Jersey Section Executive Committee
See page 13.

WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM AND MEDAL AWARD BANQUET

In honor of Professor K. Barry Sharpless
The Scripps Research Institute

Topic: Keeping It Simple: Click Chemistry in Action

Date: March 10, 2006

Place: Crowne Plaza Hotel, White Plains, NY

1:30 PM Welcome

Professor Jill K. Rehmman
2006 Chair, ACS New York Section
St. Joseph's College

1:35 PM Opening of the Distinguished Symposium

Mrs. Joan A. Laredo-Liddell
2006 Chair-Elect, ACS New York Section
Marymount College of Fordham University

1:45 PM Dipolar Cycloadditions:
Old Dogs, New Tricks

Professor Valery V. Fokin
The Scripps Research Institute

Despite of the high energy content, organic azides and alkynes are chemically orthogonal to an unusually broad range of reagents, solvents, and other functional groups. Although their thermal cycloaddition reaction is exceedingly slow due to the high energy of activation (ca. 24-26 kcal/mol), their reactivity towards each other can be revealed by means of an appropriate catalyst. For example, copper(I) results in the formation of the 1,4-disubstituted 1,2,3-triazoles, while ruthenium(II) catalyzes formation of the complementary 1,5-regioisomers. Catalytic azide-alkyne cycloadditions are now among the most efficient ways to permanently unite diverse structures by means of the triazole connections -- permanent chemically inert links that bring together blocks with desired functionality.

Representative examples from our laboratories, as well as important mechanistic aspects of these processes and their implications for the design of other catalytic systems will be discussed in the lecture.

2:30 PM Towards Bioactive CyClick Peptides.

Professor Jan H. van Maarseveen
University of Amsterdam

Small cyclic peptides have been isolated from several species and often they show potent bioactivities. Further exploration is, however, hampered by the difficult synthetic accessibility. It turned out that replacement of one or more backbone amide bonds in small cyclic peptides by 1,4-substituted triazole units greatly improves the synthesis. In addition, it turned out that both electronically and sterically 1,4-substituted triazoles are perfect trans amide isosteres. CyClick analogs will be discussed of the natural cyclic tetrapeptide c[Pro-Val-Pro-Tyr], a tyrosinase inhibitor that cannot be cyclized using traditional lactamization methods.

3:15 PM Coffee Break

3:45 PM Using Organic Chemistry to Control the Properties of Nanoscopically Defined Materials: From Microprocessors to Hydrogels.

Professor Craig J. Hawker
University of California, Santa Barbara

In designing polymeric materials for use in nanotechnology it rapidly becomes apparent that control over all aspects of polymer structure (molecular weight, polydispersity, number and position of functional groups, architecture, etc.) is required if these materials are to be used successfully to create nanostructures in the sub-50 nm size regime. Equally important to the rapid introduction and incorporation of these materials into devices is the development of robust and simple techniques for their synthesis. This last feature will allow a wide range of materials to be prepared efficiently while also permitting non-experts to prepare well-defined materials. The development of facile chemistry for the design and application of materials in advanced storage devices and microelectronics for the information technology industry will be discussed. Further examples will demonstrate that these new synthetic techniques may also have application in other areas such as bio-sensors, DNA chips, delivery devices and high modulus hydrogels.

4:30 PM How Much Reactivity Does a Chemist Need?

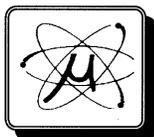
Professor K. Barry Sharpless
The Scripps Research Institute

I have borrowed my title from Leo Tolstoy's famous short story How Much Land Does a Man Need? The original is a morality tale writ large, a short story about a man who, in his lust for land, forfeits everything, including his own life. However, though I read it some 50 years ago, it has stuck as a vivid memory and a meaningful icon.

My lecture will consider the chemists' love affair with reactivity. How much more 'new reactivity' we think we need, and how by seeing the known in new light we might find creating new properties and functions much easier than we had ever imagined possible, and how chemical orthogonality can enable us to create "Trojan Horse" molecules using Nature's own biochemical tools without Her ever noticing.

5:30 PM Closing of the Distinguished Symposium

Deadline for items to be included in the April 2006 issue of *The Indicator* is February 14, 2006.



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CHEMISTRY AS A LIFE SCIENCE SYMPOSIUM XIII

Friday, March 17, 2006
The Paul Robeson Campus Center
Rutgers, The State University
Newark, New Jersey

Distinguished Speakers:

Robert H. Grubbs

California Institute of Technology

Olefin Metathesis Catalysts for the Synthesis of Complex Structures

Amir H. Hoveyda

Boston College

Solutions to Some Difficult Problems in Catalytic Enantioselective Synthesis

Madeleine M. Joullie

University of Pennsylvania

Synthetic Investigations of Naturally Occurring Metabolites and Their Use as Antimitotic Agents

Koji Nakanishi

Columbia University

Nature and Natural Product Chemistry

Matthew D. Shair

Harvard University

Discovery and Use of Small Molecules to Illuminate Life Processes

F. Dean Toste

University of California at Berkeley

Transition Metal Catalyzed Reactions for Organic Synthesis

7:30 AM	Complimentary Continental Breakfast
8:30 AM	Welcoming Remarks
8:45 AM – 12:00 PM	Lectures
12:00 PM – 2:00 PM	Lunch Break
2:00 – 5:00 PM	Lectures
5:00 PM	Sponsors' Reception

This symposium is free and open to the public. Advanced registration is required. All registration must be completed at the following website:
<http://njacs.org/caals2006.html>.

CHEMISTRY AS A LIFE SCIENCE

Historical Perspective

This year marks the thirteenth of these biennial, one-day symposia held under the auspices of the American Chemical Society through its Division of Medicinal Chemistry and Division of Organic Chemistry and the North Jersey Section, and sponsored by more than a score of major pharmaceutical and related research-based chemical companies.

The series began in 1982 with a symposium dedicated to the memory of Dr. Willy Leimgruber, an organic chemist and Director of Chemical Research at Hoffmann-La Roche in Nutley from 1973 until his untimely death in 1981. His research interests had included structure elucidation and synthesis of natural products and the study of their potential utility as medicinal agents. As with all the ensuing symposia, the first symposium was an overwhelming success, attracting a capacity audience of over 750 research chemists from both academia and industry.

It became immediately clear after the initial event that such a symposium, in the heartland of the pharmaceutical industry, had served a scientific need of the research-based chemical and pharmaceutical community in New Jersey and the Eastern Seaboard's middle-Atlantic region. Subsequently, key representatives from the pharmaceutical research industry in northern New Jersey solidified the organizational process to insure that similar events would continue into the future on a biennial basis.

Invitational lectures at the pioneering symposium addressed issues central to the focus of modern pharmaceutical research, ranging from synthetic organic chemistry to topics at the interface of chemistry and biology. Subsequent meetings have adopted this philosophy and format, continuing to focus the attention of research chemists on the relevance of their science to an understanding of biology at the molecular level and to the ability of organic chemists to intervene in biological processes for therapeutic benefits. Symposium XIII will continue this tradition as chemistry continues to move to become an inclusive science – one that incorporates within itself all of the various disciplines to which it contributes, especially the biological sciences.

Chemistry As A Life Science, traditionally free and open to the research community on a first-come, first-served basis, has rapidly evolved into a major organic chemistry event. The invited speakers for this thirteenth symposium include: Robert H. Grubbs (California Institute of Technology), Amir H. Hoveyda (Boston College), Madeleine M. Joullie (University of Pennsylvania), Koji Nakanishi (Columbia University), Matthew D. Shair (Harvard University), F. Dean Toste (University of California at Berkeley)

The 2005-2006 Organizing Committee consists of organic and medicinal chemists from some of our major pharmaceutical companies, including Bristol-Myers Squibb, Hoffmann-La Roche, Lexicon Pharmaceuticals, Merck & Company, Novartis Pharmaceuticals, Sanofi-Aventis, Schering-Plough, and Wyeth Research. Rutgers, the State University of New Jersey is the host and provides the use of the Newark campus facilities with the compliments of the State of New Jersey. Financial support, which has always made this series possible, has been once again generously provided by most of the major pharmaceutical houses and related chemical companies on the Eastern Seaboard.

Organizing Committee: Eugene J. Trybulski, Chair (Wyeth Research), Scott Edmondson (Merck & Company), W. Richard Ewing (Bristol-Myers Squibb), Stan S. Hall (Rutgers University), Freider Jaekle (Rutgers University), Joseph A. Kozlowski (Schering-Plough), Victoria K. Lombardo (Lexicon Pharmaceuticals), Mahavir Prasad (Novartis Pharmaceuticals), Roumen Radinov (Hoffmann-La Roche), and Philip Weintraub (Sanofi-Aventis).

New York Meetings

www.newyorkacs.org

CHEMICAL MARKETING & ECONOMICS (CM&E) GROUP

2006 World Petrochemical & Energy Outlook

Speaker: Michael Kratochwill
Vice President
Finance & Strategy

or

Dr. Andrew B. Swanson
Vice President and Director
Chemicals Practice
Nexant ChemSystems
White Plains, NY

Date: Thursday, February 2, 2006

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

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

Fees: \$40 discount price for Members who reserve by Tuesday, January 31st (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. To pay online by credit card (via PayPal), go to the CM&E Website: <http://www.nyacs-cme.org/>

LONG ISLAND SUBSECTION

Biosensors Development: From Basic Research to Practical Applications

Speaker: Dr. Silvana Andreescu
Clarkson University
Potsdam, NY

In the last decade, a rapidly expanding area of research is the development of novel analytical devices that could respond to today's needs for low cost, reliable, ultra-sensitive and rapid detection of analytes of interest in clinical diagnosis, environmental monitoring and food control. A biosensor is "a compact analytical device incorporating a biological sensing element either integrated within or intimately associated with a physicochemical transducer". Biosensors are expected to provide performances that make them comparable or even better than traditional analytical systems. This presentation will discuss the current state of the art of biosensor technology and will focus on recent trends and challenges in designing a reliable biosensor for practical applications. Possible ways of increasing the overall characteristics of these devices (e.g. stability, sensitivity, reproducibility) will be also discussed. The emphasis of this presentation relates to enzymes as biological responsive elements; we will present our current research efforts and preliminary results in biosensor development with a special focus on enzyme immobilization, microencapsulation techniques and electrochemical detection.

Date: Thursday, February 2, 2006

Times: Coffee 5:30 PM
Seminar 6:00 PM
Dinner 7:00 PM

Place: Hofstra University
Lister Auditorium
California Avenue
New Chemistry Building

HIGH SCHOOL TEACHERS TOPICAL GROUP

How Sweet It Is: The Search for Natural Sweeteners

Speaker: Dominic Vellucci
Principal Scientist
Kraft Foods Research
Tarrytown, NY
<dvellucci@kraft.com>

Date: Friday, February 10, 2006

Times: Social and Dinner — 5:45 PM
No reservations required

Place: Caffè Pane e Cioccolato
10 Waverly Place at Mercer Street
(south-west corner)
New York, NY
(You eat, you pay cash only,
no credit cards.)
No reservations required

Times: 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.



Joan Laredo-Liddell (l) and Jean Delfiner (4th from right) present a certificate to Professor David Grier, chairman of NYU Department of Physics, for his presentation on "Soft Matter." Back row: Jack DePalma, Lew Malchick, John Roeder, Eric Megli and Helen Creedon.

Photo courtesy of Joan Laredo-Liddell

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HUDSON-BERGEN CHEMICAL SOCIETY — JOINT MEETING WITH SIGMA XI

The Chemistry of Wine

Speaker: Dr Ariel Fenster
McGill University

It is said that a meal without wine is like a day without sunshine. This lecture will provide the audience with all the necessary information to fully appreciate this best companion of good food. It presents the history of wine as well as the chemical aspects of fermentation and of aging. Recent studies suggesting that moderate wine consumption is beneficial to health are also examined in a critical fashion. This lecture, which is both informative and humorous, concludes with an introduction to the "science" of wine appreciation with particular reference to the understanding of wine labels and the proper technique of wine tasting. A pleasure for all, from the experienced oenophile, to the wine lover "in waiting."

Ariel Fenster teaches at McGill University, where he is a founding member of the Office for Science and Society, an organization dedicated to disseminating up-to-date information in the areas of food, food issues, medications, and the environment and health topics in general. Dr. Fenster is well known as an outstanding communicator and an exceptional promoter of science with an

extensive program, developed over nearly three decades. Over that period he has given close to 600 lectures and public presentations in English and in French across North America and Overseas. He appears regularly on TV and radio to discuss health, environmental and technology issues and has presented numerous science segments for children's television. Recently he was seen in French on Radio-Canada's popular daily health show "37,5" and in English on the "Discovery" science show "What's that all about?" His contributions to teaching, and to the popularization of science, have been recognized by numerous awards. Among them: the "Award for Excellence in Chemistry Teaching" by the U.S. Chemical Manufacturers Association and the "McNeil Medal for the Public Awareness of Science" from the Royal Society of Canada (inaugural award). Ariel Fenster, who is a native of the wine-growing region of Bergerac, France, holds a Master's degree from the University of Paris and a Ph.D. from McGill University.

Date: Friday February 10, 2006
Time: Social 5.30 PM
Dinner 6.00 PM
Seminar 7.00 PM
Cost: \$ 20, \$10 for students
(no cost for seminar only)
Place: Ramapo College of New Jersey
Trustees Pavilion 1
Mahwah, NJ

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

Disease Target Validation and Compound Evaluation Using Pathway Analysis Approaches

Organizers: Jose R. Perez
Pfizer Global Research & Development
Jeanne Magram
Boehringer Ingelheim
Pharmaceuticals

Date: Tuesday, February 28, 2006
Time: 1:00 – 5:00 PM
Place: New York Academy of Sciences
2 East 63rd Street
New York, New York

Space is limited. To reserve a seat, go to the calendar at www.nyas.org/bpdg and fill out the online reservation form, e-mail BPDG@nyas.org or call 212.838.0230 x322.

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>.

HUDSON-BERGEN CHEMICAL SOCIETY

The Hudson-Bergen Chemical Society enjoyed a wonderful talk "What's Under the Froth" by Dr. Gerhard Haas, Research Visiting Professor at Fairleigh Dickinson University. Formerly, he was Research Director of Rheingold Breweries and Principal Scientist at General Foods Corporation. He talked about the raw materials which go into the brew and the chemical conversions into the well-known foamy and refreshing beverage. The talk was followed by a beer tasting, for those over 21, featuring beers of different types and from different countries.

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Photo: (L-R): Prof. Steven Anderson, Ramapo College, Chair of HBCS; Dr. Gerhard Haas, FDU, Speaker; and Dr. Mihaela Leonida, FDU, Chair-Elect HBCS.

Photo courtesy of Dr. Grace B. Borowitz

**LONG ISLAND SUBSECTION —
TENTH ANNUAL FRANCES S.
STERRETT ENVIRONMENTAL
CHEMISTRY SYMPOSIUM**

NPS Pollution — What's in Your Sump?

Speakers include: Kimberly Rancourt
Long Island South Shore
Estuary Reserve Office
John T. Tancredi, Ph.D.
Dowling College

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.

Date: Thursday, May 25, 2006
Place: Hofstra University
Hempstead, NY

Plan now to attend! And watch for updates at <http://www.newyorkacs.org>.

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ANALYSIS FOR THE CHEMICAL ELEMENTS

Call for Papers

54th ANNUAL UNDERGRADUATE RESEARCH SYMPOSIUM

Sponsored by: The New York Chemistry Students' Association of the American Chemical Society's New York Section.

Ionic Liquids: Salts for the Earth

Speaker: James F. Wishart
Brookhaven National Laboratories

Date: Saturday, April 29, 2006
Place: St. John's University
Queens, NY

The symposium provides an excellent opportunity for undergraduate chemistry students in the NY metropolitan area to present the results of their research. The program includes a keynote address, presentation of student papers (15 minutes each in small groups), followed by a luncheon.

To:

1. Submit an abstract on-line
2. Print a flyer for posting - Print "Call For Papers" frame
3. Obtain directions to St. John's University

Go To: http://newyorkacs.org/grp_students.html

If you have any questions please contact: JamieLee Rizzo, Co-chair, Student Affiliate Committee, jrizzo@pace.edu

Alison Hyslop, Co-chair, Student Affiliate Committee, hyslopa@stjohns.edu

Sharon Lall-Ranmarine, Co-chair, Student Affiliate Committee, SLallramnarine@qcc.cuny.edu

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North Jersey Meetings

<http://www.njacs.org>

EXECUTIVE COMMITTEE AND SECTION MEETING

Section officers, councilors, committee chairs, topical group chairs, and section event organizers meet regularly at the Section 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. Members interested in being on section committees should contact the section chair, Stephen Waller (waller@njacs.org) prior to this meeting.

Date: Monday, February 27, 2006
Time: 5:30 PM
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

Reservations: call 732-463-7271 or email njacsoffice@aol.com prior to **Wednesday, February 22, 2006**. 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, February 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, if you plan on attending this meeting.



MASS SPECTROMETRY DISCUSSION GROUP

Topic 1: "Vial to File - in a GLP Laboratory"

Speaker: Dr. Roger Hayes
Schering-Plough Research
Institute

Topic 2 TBA

Date: Tuesday, February 7, 2006
Place: Somerset Marriott
Time: Social 5:30 PM
Dinner 6:30 PM
Announcements and
Presentations 7:15 PM
Cost: None

Sponsored by Spark Holland

Please visit www.njacs.org/ms.html for registration



ChemTAG Meeting

Annual Make-and-Take Bonanza

Date: Wednesday, February 8, 2006
(Snow date: February 15)
Time: 4:00 PM
Place: East Brunswick High School
380 Cranbury Road
East Brunswick, NJ

Contact: Karen Posluszny at kposluszny@ebnet.org



TEACHER AFFILIATES

Executive Committee Meeting

Date: Monday, February 13, 2006

Time: 4:30 PM

For location: Contact: Diane Krone at kroned@optonline.net or (201) 385-4810

ChemTAG NW

Check <http://www.njacs.org/teacher.html> for date

Place: Lenape Valley High School
Stanhope-Sparta Road
Stanhope, NJ

Contact: Janet Clifford at jclifford@lvhs.org



NJACS member Bobbi Gorman demonstrates the joys of toys NCW activities at FDU, Madison.



Brenda Rosenau, a member of NJACS-TA, explains radial chromatography at NCW activities at FDU, Madison.

Obituary

DR. FREDERICK W. BOLLINGER, MERCK SENIOR RESEARCH CHEMIST

A memorial service for Frederick W. Bollinger, 87, of Westfield was held Saturday, December 3, 2005, in the Presbyterian Church of Westfield. Arrangements were by the Gray Funeral Home, Westfield.

Dr. Bollinger, who died the previous Monday in Overlook Hospital, Summit, was a senior research chemist at Merck & Co. in Rahway, where he worked for 38 years before retiring. He co-invented the primary compound of the drug Sinemet, which has been used for the treatment of Parkinson's disease since 1975. He also helped develop other compounds and held several patents on them.

Dr. Bollinger was a 1939 graduate of the University of South Dakota, with a bachelor's degree in chemistry, completed a master's in chemistry at Washington State University in 1941 and started doctoral studies at the University of Chicago. In 1943, he earned a master's in meteorology from the California Institute of Technology. He later completed his Ph.D. at the Illinois Institute of Technology.

He was a captain in the Army Air Corps, working as a meteorologist during World War II.

Dr. Bollinger was a member of the North Jersey Section of the American Chemical Society, and served as its section chair. He also was a member of the American Chemical Society for more than 50 years and attended conferences and seminars as a member and a member emeritus.

He was a deacon and elder, both at the Presbyterian Church, and was active with the Boy Scouts and Republican Party, all in Westfield.

Dr. Bollinger was a member of the Genealogical Society of the Westfields, volunteered to help prisoners with their graduate equivalency exams at Rahway Prison, assisted with activities at the Westfield Day Care Center, and helped various groups involved with Parkinson's disease.

An avid traveler, he made several trips to the People's Republic of China, where he participated in the International Technical Exchange.

Born in Tyndall, SD, Dr. Bollinger lived in Westfield for many years.

Surviving are sons Frederick W., Jr., Roger and Bruce, a brother, Gerald, a sister, Mary Alice Searl, and two grandchildren.



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Call for Nominations

SOCIETY FOR APPLIED SPECTROSCOPY, NEW YORK SECTION

Undergraduate and Graduate Student Awards in Applied Spectroscopy

The New York section of the Society for Applied Spectroscopy is pleased to announce the Undergraduate and Graduate Student Awards program for Academic Year 2006. The SAS is seeking nominations for its annual Student Awards that recognize excellence in the field of Applied Spectroscopy. The field of Applied Spectroscopy is broadly defined, and includes the use of traditional atomic and molecular spectroscopic techniques as well as the use of spectroscopic detectors in hyphenated instruments, spectroscopic detectors in microscopy, imaging and related fields.

One graduate and up to five undergraduate awards will be presented. Each candidate should be an undergraduate in at least their junior year or a graduate student majoring in science. The graduate awardee will receive a \$500 cash award, a plaque, a one year membership to the SAS, plus an invitation to the student awards dinner. The New York Section Graduate Student Awardee will also be nominated for the National SAS Student Award which will be presented at the 28th Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS). Each undergraduate awardee will receive a \$100 cash award, a plaque, a one year membership to the SAS, plus an invitation to the student awards dinner.

Applications should include the following items for evaluation. Documents should be sent electronically if possible):

- A letter of recommendation from his/her research advisor.
- Letters of recommendation from two additional faculty members who are familiar with the quality of the student's work.
- Transcripts that document all university credits (unofficial transcripts are OK).
- A one page summary of the research

project written by the student including reference to any of the student's published work, demonstrating applicability of the research to the field of applied spectroscopy.

- Telephone numbers, addresses and e-mail addresses of both the student & research advisor.

The deadline for award nominations is **March 1, 2006**. Please submit nominations to:

Dr. Eileen M. Skelly Frame 518-383-0946
46 Deer Run Hollow 518-373-2770 (FAX)
Halfmoon, NY 12065 Skellye@aol.com



CHIRALITY MEDAL 2006

The Chirality Medal was instituted by the Societa Chimica Italiana in 1991 to honor internationally recognized scientists who have made a distinguished contribution to all aspects of chirality. Any scientist is invited to submit a nomination for the 2006 Chirality Medalist. **The deadline for nominations is March 1, 2006.** The Medal will be presented at Chirality 2006, the 18th International Symposium on Chirality (ISCD-18) to be held on June 25-28, 2006 in Busan, South Korea (Chirality 2006 web site: www.chirality2006.org).

Please email the letter of nomination with supporting documents by March 1 to the Chair of Chirality 2006, Professor Myung Ho Hyun at mhhyun@pusan.ac.kr

Previous Chirality Medal Winners are as follows:

- 1991 Gil-Av (Israel) and J. Jacques (France)
- 1992 V. Prelog (Switzerland)
- 1993 K. Mislow (USA)
- 1994 W. Pirkle (USA)
- 1995 K. Nakanishi (USA)
- 1996 E. L. Eliel (USA)
- 1997 R. Noyori (Japan)
- 1998 H. Kagan (France)
- 1999 V. Davankov (Russia)
- 2000 B. Sharpless (USA)
- 2001 Y. Okamoto (Japan)
- 2002 D. Seebach (Switzerland)
- 2003 D. Armstrong (USA)
- 2004 V. Schurig (Germany)
- 2005 K. Soai (Japan)

Call for Papers

MID ATLANTIC CHAPTER LABORATORY ROBOTICS INTEREST GROUP

New Technologies Meeting

Presentations are being sought from scientists and engineers who have developed or implemented new laboratory technologies. Possible topics include new applications for robotics, novel instrumentation, analytical techniques, or improved methods of data management and computation.

Date: Thursday, March 23, 2006
Time: 7:00 - 9:00 PM
Place: Montclair State University Student Center Montclair, NJ

For complete details please contact Kevin Olsen, Room 359 Richardson Hall, Montclair State University, Montclair, NJ, 07043, 973-655-4076, OlsenK@Mail.Montclair.Edu

Call for Posters

STUDENT POSTERS

Mid Atlantic Chapter Laboratory Robotics Interest Group

Open to undergraduates and graduate students. Student posters may be on ANY TOPIC in engineering or the biological and physical sciences.

Cash prizes will be awarded. The winners of the 2005 contest are posted at: <http://blake.montclair.edu/~olsenk/may%202005%20poster.htm>

The student poster contest is being run in conjunction with the chapter's annual New Technologies Meeting. This meeting showcases the latest technologies for the laboratory from automated devices, to new instruments, and improved data management systems.

Date: Thursday, March 23, 2006
Time: 3:00 - 9:00 PM
Place: Montclair State University Student Center Montclair, NJ

Others



38th ACS MIDDLE ATLANTIC REGIONAL MEETING — MARM 2006 — HERSHEY LODGE, HERSHEY, PA, JUNE 4-7, 2006

Co-hosted by SE Pennsylvania and Susquehanna Valley Sections

Chemistry at Chocolate Town

Registration Now Open

Registration and abstract submission are now open for the 2006 Middle Atlantic Regional Meeting (MARM 2006) of ACS. A program filled with the latest chemical research will be held in the Conference Center of Hershey Lodge, Hershey, PA, on June 4 to 7, 2006. Check the meeting website at <http://www.marm2006.org> for regular updates and registration. Abstracts can be submitted at: <http://acs.confex.com/acs/marm06/cfp.cgi>

Major Symposia Planned:

- Analytical Chemistry
- Organic Chemistry
- Food Chemistry (especially chocolate)
- Medical/Pharmacological Chemistry
- Burger and Copes Scholars

Preliminary List of Program Areas

- Exemplary Plenary sessions, 100 years of FDA regulation, Mass spectrometry, Forensics, Education, Law, Computers, History (especially Joseph Priestly), Inorganic, Polymers, Bench to pilot plant, and Physical

Awards for best undergraduate/graduate research

Visit our website at <http://www.marm2006.org> for regular updates

Single Molecule Spectroscopy for Early Diagnosis of Disease

MARM 2006 is honored to have Professor Edward S. Yeung from Iowa State University presenting a lecture as one of the invited plenary speakers. His research, which focuses on the identification, development, evaluation, and application of new measurement concepts, has led to the discovery of new analytical techniques in nonlinear spectroscopy, laser-based detectors, capillary electrophoresis, trace gas

monitoring, single-cell and single-molecule analysis, DNA sequencing, and data treatment procedures in chemical measurements. His contributions to chemistry have been recognized by numerous awards, including the ACS Division of Analytical Chemistry Award in Chemical Instrumentation and the Pittsburgh Analytical Chemistry Award. Reaching the ultimate level in microscale spectroscopy, Dr. Yeung's presentation will detail how single molecules can be detected using a novel laser-imaging system. The method provides the ability to look at the chemical constituents within a single human cell, which has important applications to the early diagnosis of diseases.

Chocolate - Food of the Gods

MARM 2006 promises to be an enjoyable and informative meeting with Dr. Howard and Sally Peters presenting an invited plenary lecture during the Sunday science education day. Dr. Peters has devoted himself to the advancement of chemistry in our world through numerous years of service in ACS governance and as a chemical attorney. An appropriate presentation for a chemistry meeting in "Chocolate Town" - the Peters will provide insight into the history of chocolate from the Mayan and Aztec cultures to the present, the chemistry and biochemistry of theobroma cocoa, and the currently circulating urban legends about chocolate. Over the years, Dr. Peters has presented this talk and others about the history of chemistry as part of his efforts to get more people excited about chemistry and to inform current chemists of how chemistry relates to everyone's life.

The 2006 ACS Middle Atlantic Regional Meeting (MARM) will be held in Hershey, PA, June 4-7, 2006. For more information visit us at <http://www.marm2006.org>.

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MARM HONORS: THE ALFRED BURGER AWARD IN MEDICINAL CHEMISTRY

This is the first year for the "MARM Honors" symposium. The goal of the symposium will be to honor a different ACS division award at each MARM. To honor the award, a full day symposium will be organized to include past award recipients and other current major researchers speaking in honor of recipients, such that retrospective, current, and future views of the field are presented.

This year, MARM is proud to honor the Alfred Burger Award. This award is the most prestigious national award presented in medicinal chemistry. Initially established in 1978 with financial support from GlaxoSmithKline, the ACS Division of Medicinal Chemistry has presented this award biannually to industrial and academic chemists, who have made outstanding contributions to the discovery of new pharmaceuticals and to the understanding of the interactions or the synthesis of medically important compounds.

Symposium Speakers

Keynote Speaker
Philip Portoghese - 2000 Recipient
University of Minnesota

William J. Greenlee - 2004 Recipient
Schering-Plough Pharmaceuticals

Arthur A. Patchett - 2002 Recipient
Merck & Company (Retired)

Ralph Hirschmann - 1994 Recipient
University of Pennsylvania

Erik J. Sorensen (Honoring Arthur Patchett)
Princeton University

David Augeri (Honoring Josef Fried -
1996 Recipient)
Lexicon Pharmaceuticals

The 2006 ACS Middle Atlantic Regional Meeting (MARM) will be held June 4-7, 2006 at the Hershey Convention Center in Hershey, PA. More information on the meeting can be found at www.marm2006.org.

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Everything You Always Wanted to Know about Printing

Speaker: Dr. Richard M. Goodman
Richard M. Goodman
Consulting LLC

Most of us feel we are constantly being inun-

dated by 4-color advertising pieces and periodicals (that is, junk mail and magazines). But how many of us have ever considered how these items get produced. Of course, the first stage is to make the paper, but that is not our interest. However, the process for printing these materials is the area of interest and a fascinating process it is. In particular, offset lithography is based on one of the oldest chemical discoveries: that oil and water don't mix (or do they?). Throw in a little surface science, polymer science, and most of all today, computer science and voila! Desktop publishing and direct computer to plate (alias CTP) technology. The chemistry behind the offset lithographic process will be briefly discussed and practical examples of all sorts of printing outputs will be described. From this talk you will learn: basic chemistry of lithographic process, press design features, the nature of special offset inks, particularly the design of the lithographic printing plate and CTP technologies. We will also take a brief visit into the future of printing.

Dr. Richard M. Goodman holds certificate number 747 from the ACC&CE and has recently been elected to its board of directors. He spent fourteen years as a Director in research and development for Kodak Polychrome Graphics and its predecessor companies. Dr. Goodman is currently an expert delegate to the ISO TC 130 graphic technology directorate. He has written more than 30 scientific publications over his thirty year career as a surface chemist and holds 15 US patents.

He received his Ph.D. in 1969 from the University of California at Berkeley in fundamental surface sciences. He has BS in Chemistry from the University of Michigan at Ann Arbor. He has been active in the American Chemical Society holding numerous committee chairmanships, including the 1996 Chairman of the New York Section, American Chemical Society.

Date: Tuesday, February 28, 2006

Place: Snuffy's Restaurant
Park & Mountain Ave (Rte 22 East)
Scotch Plains, NJ

Times: Networking/Cash Bar 6 PM
Dinner 6:30 PM
Presentation 7:30 PM

Registration: \$40 ACC&CE Members
\$50 Non-members

To Reserve: Call Linda B. Townsend
at 1-973-729-6671 or e-mail:

accce@chemconsult.org

Advanced registration is required.

(continued on page 20)

ACC&CE

(continued from page 19)

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Graduate Seminar Series — Spring 2006

February 6

Crystallizable Block Copolymers: Directing Crystallization via Polymer Architecture
Professor Richard A. Register
Department of Chemical Engineering
Princeton University, Princeton, NJ

February 27

Chaos and Mixing in Vortex Dominated Flows
Professor Denis Blackmore
Department of Mathematics
New Jersey Institute of Technology
Newark, NJ

March 6

The Challenges of Designing Nanoparticle/Polymer Composites: The Infamous Interface
Professor Linda Schadler
Dept. of Materials Science & Engineering
Rensselaer Polytechnic Inst., Troy, NY

March 27

Dynamical Order and Complexity in Rhythmic Chemical Systems
Professor John Hudson
Chemical Engineering Department
University of Virginia, Charlottesville, VA

April 10

Biologically-Inspired Catalysis, or How to Teach an Old Molecule New Tricks
Professor Sergiu Gorun
Chemistry Department
New Jersey Institute of Technology
Newark, NJ

April 24

Advancing the Engineering Design of Nanocomposites with Controlled Properties
Professor Yvonne Akpalu
Chemistry and Chemical Biology Dept.
Rensselaer Polytechnic Institute, Troy, NY

Times: Refreshments 2:30 PM

Seminars 2:45 PM

Place: Room 3710, NJIT Guttenberg Information Technologies Center

Seminar Series Coordinator: Professor R. Barat (973) 596-5605, barat@njit.edu

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Spring 2006 Seminar Series

<http://www.wpunj.edu/cos/chem-physics/>

Seminar coordinator: Dr. SH Chung
(973) 720-3458
ChungS@wpunj.edu

Time: 12:30-1:50 PM

Place: Science Room 433

Tuesday, February 14, 2006

"Astrobiology: Science Fact or Science Fiction?"

Professor F. Walter
Department of Physics
Stony Brook/SUNY, Stony Brook, NY

Tuesday, February 21, 2006

"Polyoxometalates: from Archimedes to Zwitterions"
Professor M.T. Pope
Department of Chemistry
Georgetown University, Washington, DC

Tuesday, February 28, 2006

"Aromatic, Antiaromatic, Homoaromatic - The Hueckel Rule and I"
Professor K. G. Grohmann
Department of Chemistry
Hunter College, New York, NY

Tuesday, March 7, 2006

"Genius, Nonsense, and Fraud: Distinguishing Science from Pseudoscience in Physics"
Professor S. Calvin
Department of Physics
Sarah Lawrence College, New York, NY

Tuesday March 28, 2006

"Why There Is No Salt in the Sea: Some Recent Developments in the Philosophy of Chemistry"
Professor J.E. Earely
Department of Chemistry
Georgetown University, Washington, DC

Tuesday April 11, 2006

"Global Warming"
Professor S. Hameed
Institute for Terrestrial & Planetary Atmospheres
Stony Brook/SUNY, NY

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