Professor John Rogers
2007 Baekeland Awardee
See page 10.
November Calendar

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Thursday, November 1, 2007
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Thursday, November 1, 2007
Chemical Marketing & Economics Group
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Thursday, November 1, 2007
St. John's University - 6th Annual Chemistry Symposium
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Long Island Subsection
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Friday, November 16, 2007
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NORTH JERSEY SECTION
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Careers in Transition
See page 8.

Monday, November 12, 2007
Teacher Affiliates Executive Committee
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Monday, November 12, 2007
No. Jersey Chromatography Group at EAS
See page 8-9.

Wednesday, November 14, 2007
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Thursday, November 15, 2007
Baekeland Award Symposium
See page 10.

Monday, November 26, 2007
NoJ Executive Committee
See page 8.

Deadline for items to be included in the January 2008 issue of The Indicator is November 16, 2007.

November Historical Events in Chemistry
by Leopold May
The Catholic University of America, Washington, DC

November 1, 1917
Union Carbide was incorporated as Union Carbide and Carbon Corporation on this day.

November 3, 1749
Daniel Rutherford, who was born on this day, discovered nitrogen or 'noxious gas' in 1772. He was the first to distinguish between carbon dioxide and nitrogen and invented a maximum and minimum thermometer.

November 4, 1896
Cornerstone of the chemical laboratory building named after Frederick Havemeyer at Columbia University, NY, NY, was laid on this date.

November 6, 1857
One hundred and fifty years ago, William A. Noyes was born on this date. He was the first chief chemist of US Bureau of Standards (now National Institute of Standards & Testing) and editor of Journal of the American Chemical Society (1902-17).

November 8, 1711
Mikhail V. Lomonosov of Russia who suggested the law of conservation of mass and the theory of heat as a form of motion, was born on this date. He was opposed phlogistic chemistry and was the first to record the freezing of mercury.

November 11, 1925
Discovery of cosmic rays was announced in Madison, Wisconsin on this date.

November 14, 1807
Two hundred years ago on this date, Auguste Laurent was born. In 1832, he discovered anthracene, in 1836, he obtained phthalic acid from napthalene, and in 1841, he showed that carboxylic acid is phenol. He constructed a saccharimeter, discovered Laurent’s acid, and he and Charles F. Gerhardt evolved the nucleus theory of organic radicals.

November 16, 1881
Joel H. Hildebrand, who was born on this day, was a researcher in solubility and introduced helium into deep-sea diving. He lived to 101.

November 19, 1887
James B. Sumner, who crystallized urease and showed it to be a protein in 1926, was born on this day. He shared the Nobel Prize in Chemistry in 1946, for his discovery that enzymes can be crystallized with John H. Northrop and Wendell M. Stanley for their preparation of enzymes and virus proteins in a pure form.

November 22, 1970
The Manned Spacecraft Center, Houston, announced that its scientists perfected a process to extract water & oxygen from moon soil on this date.

November 24, 1833
Alexandre P. Borodin, a chemist-composer, was born on this date. He was a researcher on organofluorine compounds and the Borodin-Hunsdieker reaction. Some celebrate his birthday on November 12.

November 27, 1903
Lars Onsager, who was born on this date, was a researcher in thermodynamics of irreversible reactions. In 1968, he received the Nobel Prize in Chemistry for the discovery of the reciprocal relations bearing his name, which are fundamental for the thermodynamics of irreversible processes.

November 29, 1898
The Chemists’ Club held its first meeting on this date.

November 30, 1761
Smithson Tennant, who discovered iridium in 1803, and osmium in 1803, was born on this day. He also proved that diamonds are pure carbon.
COUNCILOR REPORT
SUMMARY OF GOVERNANCE ACTIONS/REPORTS
AMERICAN CHEMICAL SOCIETY
234th ACS NATIONAL MEETING
BOSTON, MA
AUGUST 19-23, 2007

ACTIONS OF THE COUNCIL

Election Results

• By written ballot the Council elected Mary V. Orta, Dorothy J. Phillips, Verke E. Rhodes, Kathleen M. Schulz for the 2008-2010 term; and Peter J. Stang for the remainder of a 2006-2008 term for membership on the Council Policy Committee.

• By written ballot the Council elected Frank D. Blum, Carol A. Duane, Ruth A. Hathaway, Arlene M. Sarquis and Pamela J. Shapiro for membership on the Committee on Nominations and Elections.

Candidates for President-Elect and Board of Directors
• The candidates for the fall 2007 ACS national election were announced as follows:

  President-Elect 2008
  Thomas H. Lane
  Dow Corning Corporation, Midland, MI
  Howard M. Peters, Verny, LLP, Palo Alto, CA

  Directors-at-Large – 2008-2010
  Janan M. Hayes
  (Retired) Merced College, Merced, CA
  Bonnie A. Lawlor
  NFAIS, Philadelphia, PA
  Kent J. Voorhees
  University of Colorado School of Mines, Golden, CO
  Frankie K. Wood-Black
  Trihydro Corporation, Ponca City, OK

• Candidate information can be found at http://www.acs.org/candidates.

Petitions
• The Council VOTED to accept the Petition on Local Section Affiliations. The petition addresses a difference in current Society bylaws regarding the responsibilities of the Committee on Local Section Activities (LSAC) and the Committee on Divisional Activities (DAC) in oversight of the establishment of affiliations by local sections and divisions respectively. Responsibilities for LSAC in approving local section affiliations will now parallel those currently established for DAC. To be valid, the petition next must be confirmed by the Board of Directors in 90 days.

• The Council received three Petitions for consideration: Petition on Election Procedures for President-Elect and District Director, Petition on Local Section and Division Election Procedures, and the Petition on Membership Categories and Requirements. The Petition on Election Procedures for President-Elect and District Director seeks to move toward a preferential ballot, both to make the balloting procedure more uniform and to avoid the complications and expense of run-off elections. The Petition on Local Section and Division Election Procedures provides options other than run-off elections to local sections and divisions for resolving tie votes. The Petition on Membership Categories represents a comprehensive revision of the qualifications required for membership and for affiliate status in the Society. Action is expected on these three petitions at the 2008 spring national meeting.

Committee Review and Other Committee Changes
• As part of a regular review, the Council VOTED to continue the Committee on Nomenclature, Terminology and Symbols. The Council also VOTED to support the request of the Committee on Chemists with Disabilities that its status be changed from an “other committee” of the Board to a joint Board-Council Committee.

• The Council VOTED to amend the acronym of the Committee on Project SEED and update the committee’s charge. The acronym will be changed from “Summer Educational Experience for the Disadvantaged” to “Summer Experiences for the Economically Disadvantaged.”

Governance Review – Committee Summit
• The Council Policy Committee (CPC) received a report on the activities of the Governance Review Task Force, specifically those related to the Summit on ACS Committee Structure held in July 2007. As a follow-up to this review, CPC was informed of several recommendations to be directed to the Committee on Committees, the Board of Directors, the Council Policy Committee, and to other specific committees. Recognizing its work as completed, the Council Policy Committee voted to discharge the Governance Review Task Force, with thanks, subject to the concurrence of the Board of Directors.

The Society’s Membership
• The Committee on Membership Affairs reported that as of July 2007, the ACS total membership is 1,100 ahead of that at the same date last year, and the number of unpaid members is 290 less than that at the same date last year.

Review of the Academic Professional Guidelines
• The Committee on Economic and Professional Affairs submitted its latest version of the Academic Professional Guidelines for consideration. These guidelines apply to those members of the academic community whose job function impacts directly or indirectly on scientists practicing the profession of chemistry. The Council will vote on the Academic Professional Guidelines at the 2008 spring meeting in New Orleans.

Special Discussion Item
• A special discussion item was put on the Council agenda. The discussion focused on ACS policy development and advocacy efforts. ACS President Catherine (Kate) T. Hunt framed the discussion by posing three questions: 1) How can ACS encourage more members to participate by bringing their expertise to the development of more targeted policy positions? 2) What can ACS do to increase member involvement in public policy advocacy? 3) How can ACS be a more effective leader in policy activities in the broader science and technology communities? Councilors entered into a robust exchange, offering several useful comments and suggestions. As a follow-up, President Hunt invited councilors to visit her website at www.acspresident.org for additional information.
2007 LEO HENDRIK BAEKELAND AWARD SYMPOSIUM AND PRESENTATION
From the Chemistry of Nanoscale Materials to the Engineering of Macroscale Devices

Recipient: Professor John Rogers,
University of Illinois at Urbana-Champaign

Program

“Bigger is Better: Nano-materials for Large Area Electronics”
Prof. John Rogers
Founder Professor of Chemistry and of Materials Science and Engineering

“Microdevices for Biomedical Research”
Prof. George M. Whitesides
Flowers University Professor of Chemistry, Harvard University

“Optical Control Over Condensed Matter”
Prof. Keith A. Nelson
Professor of Chemistry, Massachusetts Institute of Technology

“Plasmonic Crystal Sensors: Making Molecules Visible to the Naked Eye”
Prof. Ralph G. Nuzzo
Lycan Professor of Chemistry,
University of Illinois at Urbana-Champaign

“Who Else is Interested in Chemistry?”
Dr. Mark Cardillo
Executive Director of the Camille and Henry Dreyfus Foundation

Date: Thursday, November 15, 2007
Place: New Jersey Institute of Technology
Newark, New Jersey

Pre-registration is recommended. Deadline is Wednesday, October 31, 2007.

Poster presentations will be accepted on a first come first serve basis due to space limitation. Please submit title of the poster, author’s names and a brief abstract by Wednesday, October 31, 2007.

Please register online at www.njacs.org.

SCENES FROM THE NORTH JERSEY SECTION
The North Jersey Section received two Chemluminary Awards at the 9th Annual Chemluminary Award Celebration on August 21st at the 234th ACS National Meeting in Boston.

NJACS Executive Committee Members Diane Krone, Bettyann Howson, and Allene Johnson accept the Chemluminary award for Outstanding High School Student Program from Dr. Brian Balazs, Chair of SOCED (left), and Dr Bruce Bursten, President-Elect ACS.

NJACS Executive Committee Members Bettyann Howson, Anne Kelly, Diane Krone, and Allene Johnson accept the Chemluminary award for Outstanding Performance by a Local Section, Very Large Size from Dr. Will Lynch, Chair of LSAC (left), and Dr Ann Nalley, Past President ACS.
SEED students sponsored by the North Jersey Section presented their research at the SciMix Poster Session at the ACS 234th National Meeting in Boston in August.

More Scenes from the North Jersey Section

On August 29th, the North Jersey Section Teacher Affiliates presented Success in the Chemistry Classroom at Raritan High School in Hazlet. Thirty five attendees participated in safety, technology, guided inquiry, and equipment maintenance and repair sessions.
New York Meetings

www.newyorkacs.org

WESTCHESTER CHEMICAL SOCIETY

Special Seminar: "Selective Recognition of Macromolecules with Ion Sensitive Electrodes"

Speaker: Professor Kalle Levon
Department of Biological and Chemical Sciences
Polytechnic University
Brooklyn, NY

Electrical detection, mainly potentiometry, offers an economical, easy-to-use and accurate method for detection of ionic molecules. The selective nature of an electrode can be improved by surface imprinting and we present results for detection of a large protein, carcinoembryonic antigen, CEA. Organic electronics such as polyaniline, offer a potential use for potentiometry as these conducting polymers are composed of a 3D volume of protons and electrons. We show the potentiometric results on the deposition of a single strand DNA tile and further how we monitor the hybridization process being capable of detecting also mutations. Finally we discuss the monitoring of antibody antigen binding with our polyaniline potentiometer.

Kalle Levon has been at Polytechnic University in Brooklyn almost twenty years. Before arriving to Brooklyn, he obtained his MS degree at the University of Helsinki, Finland, and the doctoral degree at Tokyo University. He served in administrative roles of department head and vice provost from 1995 to 2005. His main interest in science swirls around the cooperative behavior of macromolecules.

Date: Thursday, November 1, 2007
Times: Refreshments 5:30 PM
Lecture 6:15 PM
Place: Polytechnic University
Westchester Graduate Center
40 Saw Mill River Road
Hawthorne, NY
Cost: Free and Open to the Public
Directions at http://www.poly.edu/west/environment/directions/

CHEMICAL MARKETING & ECONOMICS GROUP

Topic/Speaker: To be announced
(Check website for latest info: http://www.nyacs-cme.org

Date: Thursday, November 1, 2007
Times: Cocktails 11:30 AM
Luncheon 12 noon
Presentation 1:15 PM
Place: The Chemists’ Club
40 West 45th Street
New York, NY
Cost: $40 discount price for Members who reserve by Tuesday, October 30th (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 (917) 684-1659 or via e-mail to: cmegroup@yahoo.com. You can also pay online (via PayPal): go to our Website: http://www.nyacs-cme.org/.

MORE SCENES FROM THE NORTH JERSEY SECTION

The North Jersey Mass Spectrometry Discussion Group held its 2007 Distinguished Lecture Meeting and Vendor Show on September 13th.

Pictured standing: Jiwen Chen, Junayad Ashraf, Duxi Zhang, and Mickey O’Brian. Seated, Professor Fred McLafferty, Peter J.W. Debye Professor of Chemistry, Cornell University and Dr. Ian Jardine of ThermoFisher Scientific.

Prof. McLafferty’s students from left to right: Mei-Yi Zhang, Wyeth Research; Donald Drinkwater, Novartis; and, Aberra Fura, Bristol-Myers Squibb.
LONG ISLAND SUBSECTION
Approaches Toward the Synthesis of Macrocyclic Compounds
Speaker: David Brown, Ph.D.
Associate Professor
Department of Chemistry
St. John’s University

Abstract

The term macrocycle refers to medium- and large-ring compounds, respectively, 6 – 11 and 12 or more atoms in the ring. These compounds enjoy widespread occurrence in nature, possessing a range of interesting biological activities, and accordingly have been the targets of the investigative efforts of synthetic chemists worldwide.

Among the well-documented macrocyclization protocols are the macrolactonization reactions, and ring closure by C-C, C=C, and C=N bond formation. Following a brief introduction to the macrocycles, the chemical principles of the selected approaches along with significant synthetic applications will be reviewed.

Date: Thursday, November 8, 2007
Time: Coffee 5:30 PM
Seminar 6:00 PM
Place: St. John’s University
Room: Contact St. John’s Chemistry Dept.
(718) 990-6291
The New York Section is fortunate to have Dr. Susan Ettinger, PhD, RD, DABN as a speaker in November. Dr. Ettinger will present two programs on “Food and Medicine” for the Bronx, Westchester and Rockland Areas and the Long Island Area. Please check the New York Web site for exact date and location.

Contacts: Long Island - browne@ncc.edu
Westchester - JLaredoLiddell@aol.com

**NEW YORK SECTION AREA PROGRAM**

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

Ghrelin Antagonists: A Potential Therapy for Obesity, Diabetes, Behavioral and Eating Disorders

Organizers: John R. Zysk
AstraZeneca Pharmaceuticals
and
Brian J. Murphy
Bristol-Myers Squibb Company

Speakers: Jeff Zigman
University of Texas
Southwestern Medical Center

Michael Thorner
University of Virginia

Matthias Tschoep
University of Cincinnati

The role of the gut peptide hormone ghrelin as an appetite enhancer and an anabolic regulator, places it as a potential target for the treatment of obesity and other metabolic disorders. Moreover, abnormal levels of ghrelin have been associated with both anorexia and bulimia nervosa. Because emotional changes can affect feeding behavior, ghrelin has also been of recent interest in the area of psychiatric disorders. These potential effects by ghrelin on metabolism and behavior suggest that antagonists of this hormone may provide therapy for several important conditions challenging health care in this and other countries.

**Date:** Tuesday, December 11, 2007
**Time:** 1:00 PM – 5:30 PM
**Place:** New York Academy of Sciences
7 World Trade Center
250 Greenwich Street – 40th Floor
New York, NY
**Cost:** 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.

Space is limited. Reserve a seat on-line at: [http://www.nyas.org](http://www.nyas.org)

To become a Member of the Academy, visit [http://www.nyas.org/landing.html](http://www.nyas.org/landing.html)

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**40th Middle Atlantic Regional Meeting**

**Chemistry and Health**

May 17-21, 2008

Queensborough Community College
Bayside, NY

Look for the Call for Papers in C&EN in late November
The New York Section Nominating Committee will meet in December to choose candidates for the 2008 elections. Positions available are:

- Chair-elect for 2009
- Secretary for 2009 - 2010
- Directors-at-Large for 2009
- Councillors and Alternate Councillors for 2009 - 2011

If a member of the New York Section wishes to run for office or to suggest a member for consideration by the Nominating Committee, please write to the American Chemical Society, New York Section, Inc., St. John’s University, Department of Chemistry, 8000 Utopia Parkway, Jamaica, NY 11439 or send an e-mail to the New York Section office at njacsper1@optonline.net by November 29, 2007. Thank you.

**Call for Nominations**

**2008 AWARD FOR CREATIVITY IN MOLECULAR DESIGN AND SYNTHESIS**

The North Jersey Section of the American Chemical Society is soliciting nominations for the 2008 “Award for Creativity in Molecular Design and Synthesis.”

Unlike the various other Awards, which are bestowed upon members each year by singular organizations, “The Award for Creativity in Molecular Design and Synthesis” is unique in that it has been established by the North Jersey Section of the ACS and a combined consortium of organizations from the pharmaceutical sector and academic arena. The founding sponsors of this Award include: Bristol-Myers Squibb, Hoffmann-La Roche, Merck, Novartis, Schering-Plough, and Rutgers University. The Award consists of a crystal plaque and a $5,000 honorarium. The Section presents the Award biannually, on even years, to commemorate the scientific, technical, and industrial impact of senior members of the American Chemical Society and their mentorship of younger members. The Award is given in recognition of accomplishment in pure and/or applied chemistry, as characterized by the initiative, creative-ness, leadership, and perseverance of the individual as indicated by published or unpublished evidence. “Accomplishment” for the purpose of this Award is understood to be that of a world renowned leader of unusual merit, with a specific emphasis on an individual who has demonstrated broad scoping impact in the areas of chemical synthesis, method development, bio-organic medicinal chemistry, pharmaceutical sciences, and/or molecular recognition.

Nominations for the Award should include a letter describing the nominee’s achieve-ments, a brief biography along with the individual’s Curriculum Vitae, and a list of the nominee’s more important publications. Recommendation letters supporting the nomination are strongly encouraged and should be assembled by the nominating individual on behalf of the candidate.

Please submit materials by November 30, 2007, to:

Professor Lawrence Williams
Rutgers University
Department of Chemistry & Chemical Biology
610 Taylor Road
Piscataway, NJ 08854

**2008 SISTER MARY JOSE SMITH AWARD OF THE NORTH JERSEY SECTION**

The biennial award, funded by Roche, consists of $1,000 prize and a recognition plaque. It recognizes a professor from a degree-granting Institution in the North Jersey Section for inspiring students and launching them on successful careers in chemistry as manifested by their accomplish-ments.

Please submit nominations and supporting letters to Jiwen Chen, Awards Committee Chair, c/o NJ ACS, 4 Cameron Road, St. John’s University, Department of Chemistry & Chemical Biology, 8000 Utopia Parkway, Jamaica, NY 11439 or send an e-mail to the New York Section office at njacsper1@optonline.net by November 25, 2007. Thank you.

**2008 WCS DISTINGUISHED SCIENTIST AWARD**

The Westchester Chemical Society is accepting nominations for the “WCS Distinguished Scientist Award 2008.” Scientists who live or work in Westchester county. Send resume by January 31, 2008 to Joan Laredo-Liddell, 391 Palmer Road, Yonkers, NY 10701.

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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: jchen@njacs.org. (We welcome electronic submission of the nomination package.) Nominations must be received by February 8, 2008. Visit http://www.njacs.org/awards.html for more information and a list of past recipients.

**RUTGERS UNIVERSITY MATERIALS SCIENCE & ENGINEERING**

Graduate Seminar Schedule, Fall 2007

November 6
“Functional Macromolecules and Nanoparticles”
Dr. Eva Harth
Vanderbilt University, Nashville, TN
eva.harth@vanderbilt.edu

November 13
“Self Assembly and Nanophotonic Devices”
Dr. Ritesh Agarwal
University of Pennsylvania, Philadelphia, PA
ritesag@minius.seas.upenn.edu

December 4
“Carbon Nanomaterials for Electronics”
Dr. John Rogers
University of Illinois, Champaign-Urbana, IL
jrogers@ad.uiuc.edu

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There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.

- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- www.mbcservices.net/recr_disp.php
- http://newyorkacs.org/jobs.html
- http://njacs.org/jobs.html

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