Dr. Fred McLafferty
NoJ Mass Spectrometry 2007 Discussion Group's
Distinguished Lecturer

See page 7.
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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SEPTEMBER HISTORICAL EVENTS IN CHEMISTRY
by Leopold May
The Catholic University of America
Washington, DC

September 1, 1877
Francis W. Aston, who introduced the mass spectrograph in 1919, was born on this day. He measured the mass of several isotopes to accuracy of 1/1000 and received the Nobel Prize in Chemistry in 1922 for his discovery, by means of his mass spectrograph, of isotopes, in a large number of non-radioactive elements, and for his enunciation of the whole-number rule.

September 3, 1938
Ryoji Noyori, who was born on this date, shared the Nobel Prize in Chemistry in 2001 with William S. Knowles for their work on chirally catalysed hydrogenation reactions and K. Barry Sharpless for his work on chirally catalysed oxidation reactions.

September 6, 1766
John Dalton was born on this day. He proposed an atomic theory, discovered law of multiple proportions, “Dalton's law of partial pressures,” and discovered that pressures of saturated vapors of all liquids have the same value at their boiling point.

September 9, 1858
One hundred years ago, Carl Auer von Welsbach discovered lutetium with Georges Urbain. He was a researcher on rare earths, invented the incandescent mantle (Welsbach Mantle or Auerlicht), and discovered neodymium and praseodymium. He was born on this date.

September 10, 1942
The weighing of a pure compound of a synthetic element, plutonium, was done by B. B. Cunningham and L. B. Werner at wartime Metallurgical Laboratory, University of Chicago on this date.

September 14, 1936
Ferid Murad, a researcher in role of NO and cyclic GMP, was born on this date. He shared Nobel Prize in Physiology or Medicine with Robert F. Furchgott and Louis J. Ignarro in 1998 for their discoveries concerning nitric oxide as a signalling molecule in the cardiovascular system.

September 17, 1677
Stephen Hales studied the role of air and water in the maintenance of both plant and animal life, developed thepneumatic trough, and discovered that ‘air’ is released in the decomposition of plant and animal substances. He was born on this date.

September 18, 1907
One hundred years ago, Edwin M. McMillian, who made discoveries in the chemistry of the transuranium elements was born. In 1940, he codiscovered neptunium with P. H. Abelson and plutonium with G. T. Seaborg, J. W. Kennedy, and A.C. Wahl. In 1951, he shared the Nobel Prize in Chemistry with Glenn T. Seaborg for their discoveries in the chemistry of the transuranium elements.

September 19, 1861
Alexandre M. Butlerov presented the first definition and use of the term, chemical structure, before Speyer Congress on this date.

September 21, 1832
One hundred and seventy-five years ago, Louis P. Cailletet, a researcher on the liquefaction of gases, hydrogen, nitrogen, oxygen, and air, was born.

September 23, 1915
Fifty years ago, John Sheehan synthesized penicillin-V. He was born on this date.

September 25, 1813
On this date, Charles Hatchett published a method for separating iron from manganese.

September 28, 1881
Solvay Process Co. was incorporated on this date.
THE INDICATOR-SEPTEMBER 2007

North Jersey Meetings

http://www.njacs.org

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

The North Jersey Section Executive Committee meeting will be in conjunction with the Project SEED Poster Session and Dinner at Seton Hall University. Section officers, councilors, committee chairs, topical group chairs, and section event organizers will meet to discuss topics of importance to running the section and representing the membership. All ACS members are welcome to attend this meeting as visitors and to become more involved in section activities.

Date: Monday, September 24, 2007
Time: Meeting 4:30 PM
Dinner 6:00 PM
Place: Science and Technology Center
Seton Hall University
400 South Orange Avenue
South Orange, NJ
Cost: Dinner $20.00
Directions: http://www.shu.edu/visiting/
Reservations: call (732) 463-7271 or email njacsoffice@aol.com prior to Wednesday, September 19, 2007.

Dinner at the North Jersey 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.

IN MEMORIAM

Dr. Patrick Grimes 52 Years Service
Ms. Dorothy Lehmkuhl 60 Years Service
Dr. Herman Noether 67 Years Service
Dr. Louis Papazian 53 Years Service
Mr. Andrew Rubino 52 Years Service

PROJECT SEED

All ACS Members and Friends, Come and Hear about the Latest Research Going on in Area Laboratories

Take an hour or two to see the posters that you choose, as displayed by eager SEED students. You will receive highlights of the research they did in organic, pharmaceutical, biological, analytical, environmental, computational, inorganic, physical, and polymer chemistry, as well as in chemical and bioengineering, food, cosmetic, plant, and materials science, and drug development.

Your interest is critical. Thanks to your help, the SEED students will be further inspired. SEED students worked at NJIT, Rutgers and Cook College (3 campuses), Seton Hall, Stevens, Montclair, Beth Israel Hospital, UMDNJ-Robert Wood Johnson, William Paterson University, Ramapo College, New Jersey City University, Fairleigh Dickinson, Fordham, Long Island University, Brooklyn College, NJ Meadowlands Environmental Org., Hackensack Hospital, and the Public Health Research Institute in Newark.

Thanks are due to the mentors’ kindness and dedication, and funds donated by school boards, corporations, the ACS SEED endowment, and many individual chemists.

The poster session will take place as part of the social hour of the North Jersey ACS meeting. It is at Seton Hall University, South Orange Avenue (corner Centre Street), South Orange, NJ, in the Student Center. Everyone is invited. There is no charge and no reservations are needed if you go to the poster session and cannot stay for dinner. You are welcome to be a judge, and if you are a judge, you receive a free buffet dinner. To stay for dinner, call Bill Suits at (908) 234-9240 preferably by September 20th. Call Susan Fahrenholtz at (973) 338-6588 or Allene Johnson at (973) 763-6883 for more information. While you are there, stay for one of the after-dinner talks.

Date: Monday, September 24, 2007
Times: Poster Session 4:30 - 6:30 PM
Dinner 6:00 PM
Place: Student Center
Seton Hall University
400 South Orange Avenue
South Orange, NJ

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, September 6, 2007, in the Rice Lounge on the first floor of the New Academic Building. The meeting will start at 5:30 PM and end at 9:00. There will be a Dutch-treat dinner. To get the most from the meeting, be sure to bring transparencies of your resume.

Please contact vjkuck@yahoo.com, if you plan on attending this meeting.

NORTH JERSEY MASS SPECTROMETRY DISCUSSION GROUP

2007 Distinguished Lecture
Speaker: Prof. Fred McLafferty
Peter J. W. Debye Professor of Chemistry, Cornell University
Member, National Academy of Sciences
2007 NJ MSDG Distinguished Lecturer

Dr. McLafferty has been a member of the National Academy of Sciences since 1982. His contributions have been recognized by numerous prestigious awards, including the Sir J. J. Thomson Gold Medal, the Robert Boyle Gold Medal from the Royal Society of Chemistry, the Heyrovsky Medal from the Czech Academy of Sciences, the Giulio Natta Gold Medal from the Italian Chemical Society, the Torbern Bergman Medal from the Swedish Chemical Society, the Lavoisier Medal from the French Chemical Society, and the Distinguished Contribution in Mass Spectrometry Award from the American Society for Mass Spectrometry.

Date: Thursday, September 13, 2007
Times: Vendor Show 4:00 - 8:00 PM
Hors d’oeuvres 4:30 - 5:30 PM
Dinner 6:00 - 7:30 PM
Lecture 7:30 - 8:30 PM
Place: DoubleTree Hotel
Somerset, NJ

Door prizes (iPods every hour!) available. Register at http://www.njacs.org/ms.html

TEACHER AFFILIATES

Executive Committee Meeting
Date: Monday, September 17, 2007
Time: 4:30 PM
Place: Chatham High School
255 Lafayette Avenue
Chatham, NJ
Contact: Diane Krone at (201) 385-4810 or kroned@optonline.net
THE 29th ANNUAL PRINCETON ACS FALL ORGANIC CHEMISTRY SYMPOSIUM

“Cooperativity and Dual Activation in Asymmetric Catalysis”
Professor Eric Jacobson
Department of Chemistry
Harvard University

“Discovery of JANUVIA™ (Sitagliptin), A Selective Dipeptidyl Peptidase-4 Inhibitor for the Treatment of Type 2 Diabetes”
Dr. Ann Weber
Department of Medicinal Chemistry
Merck Research Laboratories, Rahway

“Asymmetric Catalysis for Organic Synthesis”
Professor Hisashi Yamamoto
Department of Chemistry
The University of Chicago

“Molecules that Changed the World”
Professor K.C. Nicolaou
Department of Chemistry
The Scripps Research Institute

Date: Friday, September 28, 2007
Times: Registration 12:00-1:00 PM
Symposium 1:00-8:30 PM
Place: Forsgate Country Club
Monroe Township, NJ
Cost: Registration/Reception/Dinner: $90.00 ($25.00 students/postdoc)

Name: ____________________________
Telephone/Fax: ____________________
Affiliation: ________________________
Address: __________________________

Email: ____________________________
If Student/Postdoc, list Advisor: ________________
Vegetarian dinner required (check box) ☐

Return to: Denise D’Auria
Princeton ACS Fall Organic Symposium
Princeton University
Chemistry Dept., Frick Labs
Princeton, NJ 08544-1009

NATIONAL CHEMISTRY WEEK POSTER CONTEST

As part of the National Chemistry Week (NCW) 2007 celebration and in recognition of the 20th anniversary of the program, the American Chemical Society (ACS) is sponsoring a poster contest for students in Kindergarten – Grade 12.

Students are invited to create a poster that celebrates the theme “The Many Faces of Chemistry”. The poster should be fun, motivational and inspire students to pursue a science/chemistry-related career.

Consider how science/chemistry is used by people in different careers.

- Photographer: chemistry’s role in developing film and making prints
- Artist: the chemistry of the materials used to paint, draw or sculpt
- Veterinarian: understanding what medicines can be given to pets
- Crime Scene Investigator: investigating crimes with chemical tests

Prizes…Prizes…Prizes…Prizes…

First and second place in each of the following grade categories:

- K – 2nd
- 3rd – 4th
- 5th – 8th
- 9th – 12th

1st Place: $250 — 2nd Place: $150

There are also prizes for teachers of winning students, which will include a Periodic Table of the Elements poster!

Local prizes for North Jersey American Chemical Society students and teachers
1st Place: $50.00, 2nd Place $25.00, 3rd Place $10.00 in every age group.
Teachers of 1st, 2nd, and 3rd place students receive the same prize.

EDUCATORS: Find additional ideas about careers in chemistry, resources for students and easy ways to celebrate at chemistry.org/ncw and www.njacs.org

Contest Rules:
- All entries must be original works without aid from others.
- Posters must be no larger than 14 x 22 inches.
- Entries on foam board will not be accepted.
- Entries must be hand-drawn using crayons, paint, colored pencils or markers.
- Posters must be sent to:
National Chemistry Week Poster Contest
c/o Mrs. Mary Ann Penna, 4 Cameron Rd., Piscataway, NJ 08854

- Posters must be submitted to Jeannette Brown, NCW Coordinator, at the address above in time for the local contest Deadline October 13.
- All entries must have the following information included on the back of the poster: student’s name, grade, name of school, school address, teacher’s name, school telephone number, student/teacher email address. Home schooled students are eligible for the contest and should include the name of any homeschool group with which they are associated. *Suggestion make a label with this information and paste it on the back of the poster.*
- Entries lacking complete and legible information will be disqualified.
- Schools please encourage all students in each class to participate. Please judge the posters in the school and submit only the three best posters per grade level per school.
- Posters not submitted should be displayed in the school during National Chemistry week. Make a photo copy of the school winning posters for display. Winning posters will not be returned.
- All student participants will receive a token gift, a mini mole or a patch or washable tattoo.
- Please publicize the poster contest in your school to the media and parents and school board members.
- Invite local parents who may be scientists to help with the contest or be models for the students.

(continued on page 10)
CHEMISTRY OLYMPIAD
By Ray Baylouny

In the last issue of The Indicator (June 2007, p. 18), I described 11 high school students who reached the second level of the National Chemistry Olympiad. As a result of their subsequent test performances, two of them, shown below, were qualified as being the top 20 Olympiads in the US! Almost 1000 high school students overall took the battery of tests. All 20 were invited to attend a two-week study camp in Colorado Springs, Colorado.

Yuxin Xie (teacher: Paul Kimmel, East Brunswick High School).

Brian Lee (teacher: David Ostfeld, Bergen Academy of Science & Technology)

We also report that Brian Lee qualified for the team of four students who competed in the International Chemistry Olympiad held July 15 through 24, 2007, in Moscow, Russia. This makes three consecutive years that the NoJ Section placed a student on the International team. CONGRATULATIONS TO BRIAN LEE WHO RECEIVED A SILVER MEDAL AT THE INTERNATIONAL CHEMISTRY OLYMPIAD!!

STUDENT AFFILIATE RESEARCH CONFERENCE

The 59th Annual Research Conference of Student Affiliate Chapters, North Jersey Section, was held on April 27, 2007, on the Drew University campus.

Twelve papers were presented representing 20 speakers and co-authors from St. Elizabeth, Drew, NJIT and FDU (Florham). Winners are:

1st place: Justin Mykietyn (Jean Durana Award), mentor: Mary-Ann Pearsall, Drew
2nd place: Maria Carroll, mentor: Adam Cassano, Drew
3rd place: Megan Redd, mentor: Gloria T. Anderle, FDU (Florham)

Winners and their Mentors
(l-r): Dr. Gloria Anderle, Megan Redd, Dr. Adam Cassano, Maria Carroll, Justin Mykietyn, Dr. Mary-Ann Pearsall.

Some of the Student Presenters.
NJ HIGH SCHOOL CHEMISTRY TEACHERS AT COOK COLLEGE

On June 12, 2007, forty chemistry teachers gathered at Cook College of Rutgers University for the last NJACS-TA sponsored ChemTAG meeting of the school year. After a buffet dinner, teachers participated in selecting student winners of the Mole Day Poster Contest. Then Dr. Mukund Karwe, Undergraduate Program Director for the Food Science Department gave an overview of the major offerings. His power point presentation was filled with humor and generated questions. Among the new information about food that we learned, was how wheat from different geographic locations has a great influence on the shapes into which pasta can be formed. Dr. Karwe also described the large variety of career possibilities in the area of food science.

Following this, Dr. Richard Ludescher, a recipient of the Endel Karmas Award for Excellence in Teaching, and chemistry professor in the Department of Food Science, led an engaging interactive discussion of gelatin, the polymer. Each teacher in the audience constructed a “monomer” from pipe cleaners and had fun linking them all together to form a huge model of a gel. The model served as an excellent summation for the exercise and exhibited many of the properties of gelatin.

Following these presentations, Dr. Karwe concluded the program by taking us on a tour of Rutgers University high hydrostatic pressure processing facility. Here bacteria in food are destroyed using pressure up to six thousand atmospheres.

Thanks to everyone, the experience was a wonderful way to conclude our year of ChemTAG.

Submitted by Bobbi Gorman

Dr. Mukund Karwe, joins in the model building.

NJ MAY 2007 SYMPOSIUM

The North Jersey Chromatography Group’s May Symposium themed “Chromatographic Industrial Needs - Quality by Design: PAT and Compliance” presented several lectures from Jonathan Crowthers, PhD, Rick Cooley, Jim Bergum, PhD, Su-Chin Lo, PhD, and Joel Young. The lectures were complemented to a successful vendor show and raffle; which all received great feedback from over 70 attendees (from industry and academia). Based on the success of this year’s Symposium, the NJCG will be holding another symposium May 2008. Stay tuned to the NJCG website for information about upcoming meetings and the 2008 Symposium. www.northjerseychromgroup.org.

Dr. Mukund Karwe, joins in the model building.

NJ HIGH SCHOOL CHEMISTRY TEACHERS AT COOK COLLEGE

On June 12, 2007, forty chemistry teachers gathered at Cook College of Rutgers

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ORGANIC TOPICAL GROUP

Drugs from Academia: Marketed Drugs from Academic Labs

Program

“Discovery of Alimta, a Broadly Effective New Antitumor Agent”
Edward C. Taylor
Princeton University

“SAHA (Vorinostat): The First Anticancer HDAC Inhibitor Approved for Human Use”
Ronald Breslow
Columbia University

“Didanosine (ddl): A Member of the Versatile 2’,3’-Dideoxy Family of Biomedical Nucleoside Analogues”
Morris J. Robbins
Brigham Young University

“Basic Science to the Market. The Discovery of Lyrica®”
Richard B. Silverman
Northwestern University

“The Discovery and Development of 3’-Heteranucleosides”
Dennis C. Liotta
Emory University

Date: Friday, October 26, 2007
Times: Registration will begin at 8.30 AM Symposium 9:00 AM - 4.30 PM Lunch 12.30 PM
Place: Palace at Somerset Park 333 Davidson Avenue Somerset, NJ 08873
Cost: $95.00 (Symposium and Lunch)
For directions, on-line registration and further details please visit our website www.njacs.org/organic.html

“Due to limited seating, please complete the on-line registration form at www.njacs.org/organic.html and send a check payable to “North Jersey Section ACS” c/o:
Dr. Binh Vu
Discovery Chemistry, 123/3 Hoffmann-La Roche, Inc.
340 Kingsland Street Nutley, NJ 07110
E-mail: binh_t.vu@roche.com

POLYMER TOPICAL GROUP — COSPONSORED BY THE ACS DIVISION OF POLYMER CHEMISTRY

Green Polymers: Materials, Processes and Products

This symposium is intended to bring the local polymer science community up to date on the penetration of green principles into the practice of polymer science and engineering and to some recent advances in the area. Through a combination of overviews and case histories, the attendees will gain a fundamental foundation, a broad perspective on the directions and growth, and an update on recent advances in green polymer materials and processes.

This event features presentations, posters and networking opportunities at a mixer during the poster session. In addition to posters on green polymers, general polymer posters are being requested.

Organizer: Thomas J. Pacansky

Preliminary Program

Session I: Green Polymers: Materials and Processes
Michael Jaffe, presiding

The Future of Polymers and the Environment: Opportunities at the Molecular Level
John C. Warner
U. Mass Lowell

Synthetic Absorbable Polymers - Molecular and Design Considerations for Implantable Medical Devices
Dennis Jamiolkowski
JNJ

The Preparation and Application of Highly Modified Starches
John S. Thomaides, ICI
L. Cimicoglou, ICI
K. Rodrigues, Alco, and M. Crossman, Alco

Polyolefins - They’re Greener than You Think
D. J. Lohse
D. N. Schulz, ExxonMobil

Session II: Green Polymers: Product Application Approaches
Ron DeMartino, presiding

(continued on page 14)
POLYMER TOPICAL GROUP
(continued from page 13)

The Role of Polymers in High Performance Construction Materials
Charlene Wall
BASF

Polymers for Printing Inks; A Green History
Richard Durand
Sun

Green Chemistry in the World of Cosmetics
Karl Krummel
L’Oreal

Poster Session
Jin Zhang, organizer and presiding
Mixer

Date: Thursday, November 8, 2007
Times: Registration 1:00 PM
Program 1:30 PM
Place: Rutgers University
Busch Campus
Fiber Optics Building Auditorium
Piscataway, NJ
Cost: Registration: Member, $30
Non-member, $40
Student, $20.

Directions: Can be found at the Rutgers University website. (http://maps.rutgers.edu/directions/nb.aspx)
Registration deadline is October 24, 2007.
Please send your full contact information along with a check made payable to
NJACS-Polymer Group to Dr. Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928
Poster Submission: Contact Jin Zhang
(jin.Zhang@bms.com)

Sponsors: ExxonMobil, Apollo Ventures, LLC
Co-sponsors: ACS Division of Polymer Chemistry
Endorsing Organizations: ACS Green Chemistry Institute, AIChE North Jersey Section, CUNY Center for Engineering, NJIT Medical Device Concept Laboratory, Princeton Center for Complex Materials.

WE ARE GOING BACK TO THE LSC
National Chemistry Week
The Liberty Science Center has re-opened and you probably have heard about all the new demos. Why don’t you join us on Saturday, October 27, as the North Jersey Section celebrates National Chemistry Week? After sharing some of your knowledge, you can tour the Center and take-in the new demos. It will be a fun day for you and your family.
The theme for this year is "The Many Faces of Chemistry". This gives you great latitude as you plan your hands-on activities. It would be appreciated if you could get a diverse group of people to join you at your table. Your activities should be geared for 8 to 12 year olds. As usual our first priority is safety. Preferably presenters should use household materials to demonstrate a scientific principle. We would like the students to be able to redo these experiments at home and at school so it would be very helpful if you had handout instructions to distribute.

If you are out of ideas for safe activities for a table, you can look at the NOW page at the ACS website. To minimize duplication of the presentations, we will need to know by October 2 the activity you would like to conduct at your table. Individuals contacting us first with their idea(s) will be given priority, so please let us hear from you as soon as possible. By October 12, we need to have the names and addresses of the individuals who will be joining you at your table.
As usual we are looking for financial support to cover the many expenses associated with our activities and would be most grateful, if you would contact the appropriate individuals at your company.

Please fill out the following forms and return them to me:

Form 1. Count me in.
My name is: ________________________________
I am volunteering to work on: Saturday, Oct. 27, 10:00am-1:00pm 1:00pm-4:00pm, or all-day (underline times).
I can be reached at: (work phone number) __________________________
My complete address is: __________________________

Form 2. My company would like to support these efforts.
The following company/individuals are willing to help defray the costs of these events:
(Checks should be made out to the North Jersey Section and sent to me.)
An acknowledgement letter for this contribution should be sent to (name and full address): __________________________

Form 3. I will be joined at my table by the following volunteers.

<table>
<thead>
<tr>
<th>Complete Name:</th>
<th>Institution:</th>
<th>Address (snail mail):</th>
<th>Acknowledge letters should be sent to:</th>
<th>Activity:</th>
<th>Time Volunteering:</th>
</tr>
</thead>
</table>

Thanks very much for all of your help. The Section is most appreciative of your efforts.
Valerie J. Kuck, 45 Warfield St., Upper Montclair, NJ 07043, vjkuck@yahoo.com
LONG ISLAND SUBSECTION

Energetic and Kinetic Folding Mechanism of the Parallel Beta-Helix Protein Pectate Lyase C

Speaker: Douglas Kamen, Ph.D
Asst. Professor of Chemistry
Adelphi University
Chemistry Department
Garden City, NY

Pectate lyase C (pelC) was the first protein in which the parallel _helix structure was recognized. These features of the proteins — a simple topology and unusual interactions among side-chains — make this an interesting class of proteins to study with respect to protein folding. Denaturant titrations monitored by far- and near-UV circular dichroism (CD), and fluorescence spectroscopies were used to observe the isothermal denaturation of pelC. Unfolding was monitored as a function of temperature by differential scanning calorimetry and temperature dependent CD. These experiments indicated that pelC is remarkably stable, and its denaturation is not a simple two-state process. Experiments to understand the kinetic folding mechanism were also carried out.

Date: Thursday, September 27, 2007
Time: 8:30 AM – 5:00 PM
Place: Hofstra University
Lister Auditorium

Cost: NYAS Members and BPDG
$20.00
Non-members $20 per event
Student Non-members $10
Affiliates may attend BPDG meetings free of charge.
Non-members $20 per event
Student Non-members $10

Space is limited. Reserve a seat on-line at: http://www.nyas.org/events
To become a Member of the Academy, visit http://www.nyas.org/landing.html

HIGH SCHOOL TEACHERS

TOPICAL GROUP

Neural Prostheses

Presenter: Victor D. Chase
Science writer

During some 30 years in the field Victor Chase has garnered newspaper, wire service, and magazine experience. His latest book, “Shattered Nerves: How Science Is Solving Modern Medicine’s Most Perplexing Problem, 2006,” Johns Hopkins University Press, is about an exciting new area of medical implant technology created to return sight to the blind, movement to the paralyzed, and hearing to the deaf. It was cited by the Library Journal as one of the best science books of 2006.

Date: Friday, September 28, 2007
Time: Social and Dinner 5:45 PM
Place: New York University
Silver Center Room 207
Caffe Pane e Cioccolato
10 Waverly Place at Mercer Street (south-west corner)
New York, NY

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.

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.
NEW YORK SECTION ELECTION RESULTS

The results of the ACS New York Section's 2007 elections, held in May, were announced at the Board of Directors meeting in June. The New York Section extends a sincere thank you to all of the candidates in this election and expresses its deep appreciation for their time and efforts. The Section looks forward to another successful year in 2008.

Chair-elect for 2008
Barbara R. Hillery
Old Westbury College - SUNY

Treasurer for 2008 and 2009
Stephen Z. Goldberg
Adelphi University

Director-at-Large for 2008
Mary K. Cowman
Polytechnic University
Sharon Lall-Ramnarine
Queensborough Community College - CUNY
Hessy L. Taft
St. John's University

Councilors for 2008–2010
Jean A. Delfner
NYC Department of Education (Retired)
Vijara L. Korlipara
St. John's University
Frank R. Romano
Agilent Technologies, Inc.

Alternate Councilors for 2008-2010
Ronald P. D'Amelia
Hofstra University
Richard M. Goodman
Richard M. Goodman Consulting LLC
Ralph Stephani
St. John’s University

Congratulations to All!

2007 JERRY MARCH MEMORIAL LECTURE

The Chemistry Department of Adelphi University is pleased to present the 2007 Jerry March Memorial Lecture in memory of our distinguished colleague Jerry March, author of, among other texts, the classic, March’s Advanced Organic Chemistry: Reactions, Mechanisms, and Structure.

March’s the Double Helix: Fact Versus the Fictional Rosalind Franklin
Speaker: Lynne Osman Elkin
Professor Emeritus of Biology
California State University at Hayward

Professor Elkin received her Ph.D. from U.C. Berkeley in 1973, working in Melvin Calvin’s lab. She taught biology at California State University at Hayward from 1971 through 2003 when she retired. After nine years of original research, Dr. Elkin is currently writing a condensed biography of Dr. Franklin entitled Rosalind Franklin and The Double Helix: Justice Pending. This book is specifically designed to correct any possible misimpressions created by James Watson since the publication of his 1968 personal account. Dr. Elkin is a recognized authority on the life and work of Dr. Franklin, and has delivered more than 35 lectures in the United States and England. These include presentations at a number of local and national meetings of the AAAS and the ACS. She also presented at the awarding ceremony of the prestigious Van Slyke award, presented posthumously to Dr. Franklin at the 2003 meeting of the American Association for Clinical Chemistry.

Date: Wednesday, October 15, 2007
Time: 7:00 PM
Place: University Center Ballroom
Adelphi University
Garden City, NY
Cost: Free and open to the public

Maps and travel directions can be found at http://www.adelphi.edu/visitors/maps.php

2007 JERRY MARCH MEMORIAL LECTURE

The Chemistry Department of Adelphi University is pleased to present the 2007 Jerry March Memorial Lecture in memory of our distinguished colleague Jerry March, author of, among other texts, the classic, March’s Advanced Organic Chemistry: Reactions, Mechanisms, and Structure.

Lynne Osman Elkin

OBITUARIES

HERMAN GERSHON

Herman Gershon, a former chair of the NY section of the ACS [1970-72] and winner of its distinguished service award [1978] passed away on February 5th, at age 86. Herman spent the major part of his career at the Boyce Thompson Institute (BTI) for plant research [over 22 years] as a senior scientist, retiring in 1984. After retiring he collaborated with Dr. Donald Clarke at Fordham University and the NY Botanical gardens and continued publishing on the antifungal properties of substituted 8-hydroxyquinones until his death.

Herman’s studies were interrupted by World War II in which he served as a medical aidman. He received Bronze and Silver Stars as well as a Purple Heart for his service. After returning from the army he worked for his Ph. D. at Colorado State U under Prof. Karl Dittmer and then returned to the east coast to join Pfister Chemical works and later BTI.

DOROTHY LEHMKUHL

Dorothy Schroeder Lehmkuhl, 1990 Chair of the North Jersey Section, died on June 1 in Annapolis, MD. She also served on many local and national committees for the ACS and was an ACS councilor for several terms.

Born in Kearny, NJ, Dorothy graduated from what is now known as Montclair State College, in New Jersey, with an A.B. degree in 1942. During World War II, she worked at Aberdeen Proving Ground, an Army ammunitions testing facility in Maryland, as an analytical chemist. After the war, she returned to Montclair State, earning a master’s degree in 1946.

From 1956 until 1984, she taught chemistry at Lyndhurst High School and at Montclair State College. After retirement, she became active in many organizations, including the New Jersey Science Teachers Association, New Jersey Educational Association, and ACS. Dorothy was an animal lover and wild bird enthusiast. She also traveled extensively around the world.

She is survived by her children, Christine, David, and Bob.
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, creativity, 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 the chemistry of beta-lactam antibiotics, (AAAS) in 2004 for “significant contributions to the chemistry of beta-lactam antibiotics, microwave-induced chemistry, outstanding mentoring of under-represented minority students.

Bose was a Professor and Chair of Chemistry at Stevens Institute of Technology. In 1984 he received the first Henry Morton Distinguished Teacher Award of Stevens.

Bose joined the Department of Chemistry of Stevens Institute of Technology in 1959. In his laboratory he mentored 35 Ph.D. candidates and trained more than 100 post-doctoral and visiting scientists from many countries. He has co-authored more than 350 research publications, 2 books, and chapters in several books; he also holds nine patents. He has been a consultant to pharmaceutical companies in the U.S. and abroad.
CONTINUING EDUCATION - SHORT COURSES, ONLINE COURSES, AND ACS PROSPECTIVES CONFERENCES

Sept. 9 - 11, 2007
“Advances in Structure-Based Drug Discovery”
Chair: Charles Reynolds of Johnson & Johnson, Kenneth Merz of the University of Florida, and Dagmar Ringe of Brandeis at the Hyatt Regency Airport in San Francisco, CA

Sept. 30 - Oct. 3, 2007
“Process Chemistry in the Pharmaceutical Industry”
Chairs: Joe Armstrong of Merck and Chris Senanayake of Boehringer-Ingelheim at the Royal Sonesta Boston in Cambridge, MA

Oct. 28 - 30, 2007
“PK/PD for Medicinal Chemists”
Chair: David Rodrigues of BMS and David Christ of SNC Partners at the Westin Philadelphia in Philadelphia, PA

Nov. 4 - 6, 2007
“Successful Biologics: Formulation to Manufacturing”
Chairs: Wenchang Ji of Amgen and LaToya Jones Braun of University of Colorado at the Westin Philadelphia in Philadelphia, PA

PUZZLE - Periodic Table Tapping - by Mark S. Lesney

ACROSS
12. “By the pricking __ my thumbs, something wicked...” 13. Z=1
15. Goes with Id(iot)s 16. Of iniquity or thieves
18. Seance ghosts knock once for 19. Sacred bird in family
21. Unit of wt. for blowing up monsters, or Big Sky st. 22. Unit of w. for blowing up monsters, or Big Sky st.
23. Digital assistance Frankenstein could use today to make a better, monster, briefly
25. Like the test 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. Angelphic heat meas.
34. Creepy condensate?
37. Inflational one of 45 across, or Octavian month, for short
39. A turf fungus or the prefix for middlelevel clouds
41. Ruth’s No. 2 element
42. A distiller’s quip?
45. DNA tripled
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. Aru peponi, 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
55. Thrill of life
56. Pythonian “Knights who say...” are probably not referring to element 29, briefly
57. Killer whale
59. Bristle-like appendage (planty)
61. Unit of magnetic flux named in honor of 24 down’s “summoner”
64. “Count” him among the more severely UV-challenged.
65. “Hellish” element
66. What you need to do after your experiment is 54 across
67. Swedish devil (or an air-moving device)
68. A grave container
70. 51
71. Quintessential mad scientist

DOWN
1. Exorcist salt (2 words) 2. Salty bondage?
3. Radiofrequency, briefly
4. Tall, tall tale
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
10. Point in a lens where light paths cross
11. Einstenium, for short
14. Goosebumps” author: _ _ Stine
15. Goes with Id(iot)s
16. Of iniquity or thieves
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 premiedis dread?
36. Small quartz formation covered with CaCO3
38. ___ catastrophe
40. “Double, double, and trouble; fire burn and 23 down bubble.”
43. Very small ant, 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
59. Bristle-like appendage (planty)
60. Swamp travel
61. Micro letter
62. Skeleton seat
64. A grave container
65. Ringed planet, briefly
66. Flower neckline
67. Swedish devil (or an air-moving device)
69. First button to check when your spectrometer doesn’t run

Solution on page 24.
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