

2010 ACS MID-ATLANTIC REGIONAL MEETING (MARM)

April 12, 2010
(Story on page 7)



Dr. Alan Cooper,
recipient of the
Ann Nalley
Regional Award for
Volunteer Service
to the American
Chemical Society

Professor Amber
Charlebois,
recipient of the
E. Emmet Reid
Award in
Chemistry
Teaching at Small
Colleges



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Address advertising correspondence to Advertising Manager. Other correspondence to the Editor.

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Tuesday, May 11, 2010

Westchester Chemical Society - Science
Café

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Thursday, May 20, 2010

Long Island Subsection - Sterrett

Symposium

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Biochemical Topical Group

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Thursday, May 6, 2010

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Tuesday, May 11, 2010

Laboratory Robotics

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ChemTAG

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Thursday, May 20, 2010

Polymer Topical Group

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***The Indicator* is posted to the web
on the 15th of the previous month at
www.TheIndicator.org**

**Deadline for items to be included in the
June 2010 issue of *The Indicator*
is April 15, 2010.**



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THIS MONTH IN CHEMICAL HISTORY

By Harold Goldwhite, California State University, Los Angeles
hgoldwh@calstatela.edu

The "Annual Reports on the Progress of Chemistry" issued by the Chemical Society (of London: predecessor of the Royal Society of Chemistry) give a fascinating glimpse into the areas of chemistry of current interest in the period covered. In this column I begin a two-part survey of Volume VII, published in 1911, which deals with chemistry in 1910, just a century ago.

The lengths of the various sections give an indication of the relative importance of different areas of chemistry at the time. General and physical chemistry are allocated 25 pages; inorganic chemistry 30 pages; organic chemistry 99 pages; analytical chemistry 28 pages; physiological chemistry (part of what we would term biochemistry) 21 pages; agricultural chemistry and vegetable physiology 16 pages; mineralogical chemistry 30 pages; and radioactivity 31 pages. The chemistry that is deemed worthy of abstraction and presentation for whole one year is covered in a mere 286 pages. How times have changed in the past century.

General and physical chemistry, summarized by T.M. Lowry, examines initially the complexities of the phase diagram of ice. Four forms have been detected and may possibly be accounted for by the existence of not only H₂O but polymeric species like (H₂O)₂ and (H₂O)₃. New compounds that can exist as liquid crystals have been examined, and their optical properties have been quantified. Cholesteryl propionate is a rare example of a material that exhibits negative double-refraction, the same phenomenon that makes calcite crystals show two images of subjects observed through them. Low temperature heat capacities of elements and compounds have been measured. Ernst and his colleagues have done measurements on samples at temperatures as low as -210°C. Among reports of measurements of electrical properties of pure solvents two reports on the ionization constant of pure water stand out. Heydweiller gives a value of 1.04×10^{-14} at 25°C; the value reported by Noyes and his colleagues at the same temperature is 0.83×10^{-14} ; and Lorenz and Bohi report 1.21×10^{-14} . These slightly differing values show the challenge of preparing extremely pure water and measuring its conductivity. Heydweiller's value is closest to the one accepted today.

Inorganic chemistry is summarized by H.B. Baker. He writes in his introduction "A tendency which becomes more and more marked year by year is the study of reactions in inorganic chemistry by physico-chemical methods. So much is this the case that the inorganic chemist pure and simple has almost ceased to exist." T.W. Richards and his group have published refined values for the atomic weights of lithium, chlorine, and silver. Other groups report new values for strontium, mercury, tantalum, tellurium, neon, and helium. A number of pure metals have been prepared for the first time in crystalline condition including 99.4% pure strontium; Madame Curie and her colleagues have prepared metallic radium in milligram quantities via its amalgam. The work of the late Ludwig Mond on the preparation of new metal carbonyls including those of cobalt, molybdenum, and possibly ruthenium has been published. Raschig has described the preparation of pure anhydrous hydrazine.

The reporters for organic chemistry were Cecil H. Desch and Arthur Lapworth; the latter is one of the pioneers of physical organic chemistry. I quote from their introduction: "A study of the investigations dealing with organic chemistry ... during the last few years produces a vivid impression of the perfection that has been obtained by the doctrines of structural chemistry. The constitution of even the most complex compounds may be attacked with the confidence that the solution is dependent chiefly on experimental skill..." I remind my readers that this is long before spectroscopic methods were widely used in establishing structure. To quote further: "... the recent development of organic chemistry has been largely determined by the influence of biology on the one hand and of physics on the other."

The influence of Lapworth's interests in physical organic chemistry permeates the early pages of this report. The work of Michael on "An Outline of a Theory of Organic Chemistry founded on the Law of Entropy" is featured though comments suggest that the typical student may be "... imperfectly grounded in the principles of thermodynamics, for the familiar terms of the latter science are here put to unorthodox uses." The catalytic effects of acids and bases on the rates of many organic reactions have been widely studied during 1910, and has led to the opinion "that such nitrogenous compounds may be effective as 'catalysts' in certain processes occurring in the living cell". Despite Gomberg's attempts to retain the field for himself (!) other groups have published on analogs of the triphenylmethyl free radical including tri-diphenylmethyl which forms deep violet solutions. Ultraviolet spectroscopy and refractivity measurements have been applied to the equilibrium between ketonic and enolic forms of ethyl acetoacetate – a relatively rare case of the use of physical methods at this period. New studies have confirmed the Hantzsch-Werner hypothesis on stereoisomerism in oximes and related compounds.

In my next column I will conclude this brief survey of Annual Reports for 1910.

MAY HISTORICAL EVENTS IN CHEMISTRY

By Leopold May, The Catholic University of America, Washington, DC

May 2, 1855

Pennsylvania and Lehigh Zinc Company was incorporated on his date.

May 4, 1892

On this date, T. L Willson of Spray, SC. made acetylene.

May 5, 1905

Procter & Gamble Co., was incorporated on this date.

May 6, 1635

Three hundred seventy-five years ago, Johann Joachim Becher was born on this date. He was a phlogiston theorist and considered matter to be made of four principles; water and three "earths".

May 6, 1742

Jean Senebier, who was born on this date, showed that green plants in light converted 'fixed air' (carbon dioxide) to "dephlogisticated air" (oxygen).

May 7, 1871

Richard B. Moore, who advocated the use of helium for balloons and dirigibles, was born on this day. He supervised the production of radium salts in US.

May 10, 1860

One hundred and fifty years ago on this date, Robert Bunsen and Gustav R. Kirchhoff announced the discovery of cesium (Cs, 55).

May 12, 1910

One hundred years ago in 1910, Dorothy Crowfoot Hodgkin was born. Using x-rays, she determined the structure of Vitamin B₁₂. She received the Nobel Prize in Chemistry in 1964 for her determinations by X-ray techniques of the structures of important biochemical substances.

May 15, 1796

Edward Jenner inoculated boy with cowpox virus on this date.

May 18, 1901

Vincent du Vigneaud, who studied sulfur-containing proteins, including insulin, was born on this day. He researched transmethylation and the metabolism of single carbon compounds. In 1955, he received the Nobel Prize for his work on biochemically important sulfur compounds, especially for the first synthesis of a polypeptide hormone.

May 20, 1860

One hundred and fifty years ago on this date, Eduard Buchner was born. He discovered alcoholic fermentation without yeast cells in 1896 and zymase in 1897. In 1907, he was awarded the Nobel Prize in Chemistry for his biochemical researches and his discovery of cell free fermentation.

May 23, 1854

Edgar Fahs Smith, who was a researcher in electrochemistry and history of chemistry, was born on this date. He served three times as President of ACS.

May 26, 1865

Max Julius Louis Le Blanc, who did research on electrochemical polarization and electrodes introducing the hydrogen electrode, was born on this date.

May 27, 1840

Lars F. Nilson, who was born on this day, discovered scandium in 1879.

May 28, 1887

Kasimir Fajans established the radioactive displacement law and initiated the concept of heat of hydration of gaseous ions. He was born on this date.

Additional historical events can be found at Dr. May's website,
<http://faculty.cua.edu/may/Chemistrycalendar.htm>

MARM 2010

TWO NJ ACS MEMBERS HONORED AT MARM 2010

Drs. Alan Cooper and Amber Charlebois, both North Jersey ACS members, were honored at the 2010 ACS Mid-Atlantic Regional Meeting on April 12 for their services to ACS and NJ-ACS and achievements.

Dr. Alan Cooper, of the Merck Research Laboratory (previously Schering-Plough), won the Ann Nalley Regional Award for Volunteer Service to the American Chemical Society. For 17 years, Dr. Cooper has been a dedicated and resourceful ACS volunteer whose efforts have led to lasting results and impact on the Section, Region and the National ACS. He has served as Chair (1998) and Councilor (1995-08) of NJ ACS at the local level, and Committee on Local Sections (2003 to 2008), Committee on Divisional Activities (1996 to 2001) and Task Force on Local Section/Division Interactions (2002 to 2004) at the national level. He was also the General Co-Chair for the extremely successful MARM 2005. Dr. Cooper has had a significant impact throughout the ACS not just because of the committees, teams and task forces he has served on and the positive changes that he has championed but also through the people he has touched with his enthusiasm, drive and compassion. He has established systems and processes, which allow others volunteers to serve effectively and in a time-efficient way and deliver enhanced programs and services to the ACS members.

Professor Amber Charlebois of Fairleigh Dickinson University has been selected as winner of the E. Emmet Reid Award in Chemistry Teaching at Small Colleges. In her eight years as a faculty member, first at William Paterson University and more recently at Fairleigh Dickinson University, Dr. Charlebois has been consistently rated one of the most effective instructors in the College of Arts and Science. In addition, she has mentored over 40 students in various research projects in chemistry. Dr. Charlebois has gone above and beyond the call of duty to excite, engage and challenge her students. She has committed herself to the calling of teaching the future scientists of our world, and she has done so with dedication and excellence.



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North Jersey Meetings

<http://www.njacs.org>

NORTH JERSEY EXECUTIVE COMMITTEE MEETING

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

Date: Monday, May 17, 2010

Time: 6:00 PM

Place: Rutgers University
Wright-Rieman Labs, Room 260
Busch Campus, 610 Taylor Road
Piscataway, NJ 08854

Cost: \$5.00 - pizza dinner

Directions can be found using mapquest and the address above. A map of the campus can be found at <http://maps.rutgers.edu/maps/default.aspx?campus=4>.

Reservations: call (732) 463-7271 or email njacsoffice@aol.com prior to **Wednesday, May 12, 2010**.

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 search

The next meeting for the Careers In Transition Group will be held **Thursday, May 6, 2010**, 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.



LABORATORY ROBOTICS INTEREST GROUP – MID ATLANTIC CHAPTER

Annual Technology Meeting and Exposition

Over eighty exhibitor booths.

Oral presentations and short courses will be presented in the seminar rooms throughout the day.

The proceeds from this exhibitor-funded meeting are used to pay for various costs of running the group throughout the year. In this way the LRIG can operate without collecting dues. Last year's Exhibition was extremely successful with over 700 attendees, and we hope to surpass that turnout.

Date: Tuesday, May 11, 2010

Times: Exhibits and Presentations:
3:00 to 9:00 PM

Place: Hyatt New Brunswick
2 Albany Street
New Brunswick, NJ

Cost: Free hors d'oeuvre, and cash bars.

Parking at the hotel is paid for by the LRIG - just tell the attendant that you were attending the LRIG meeting.

For the first time the meeting location is also accessible via public transportation, the hotel is within walking distance of the New Jersey Transit New Brunswick railroad station.

Discounted rooms are available at the Hyatt and nearby hotels for attendees who wish to stay overnight.

To register for the meeting go to http://www.lab-robotics.org/Mid_Atlantic/meetings/1005.htm

Follow the link for on-line registration.

Chem TAG

Favorite Chemistry Games

Due to inclement weather, the February Chem TAG "Favorite Chemistry Games," was rescheduled to May.

For more information contact Mita Chaki (mchaki@franklinboe.org)

Date: Tuesday, May 18, 2010

Times: 4:00 - 6:00 PM

Place: Franklin High School
500 Elizabeth Avenue
Somerset, NJ

* * * * *

Professor George Scherer of Princeton University will be giving a slideshow and talk followed by a campus tour to discuss his research directed toward the understanding of the mechanisms of deterioration of materials. We will meet early in June; the date is yet to be determined.

Date: Early June (TBD)

Please email Cheryl Litman, clitman@gmail.com, to get details which will be available by April. Based on last years schedule, the slideshow will most likely begin at 4:00 or 4:30 followed by the campus tour. There are some nice restaurants downtown and all are welcome to stay afterwards to have dinner as a group. This is the same meeting that had to be cancelled due to severe thunder storms last year.



NoJ POLYMER TOPICAL GROUP

Symposium: "Polymers in Drug Delivery"

Cosponsored by: the Controlled Release Society

Organizers: Professor Kathryn Uhrich
Rutgers-Chemistry

and

Dr. Ron DeMartino
President
Polymer Therapeutics

"Macromolecules in Drug Development: Vignettes from the Pharmaceutical Industry"

Speaker: Narayan VarianKaval
Merck

"Polymer Conjugates for Systemic Delivery of siRNA"

Speaker: Vladimir Trubetskiy
Roche-Madison

Title (TBA)

Speaker: Prabhas Moghe
Rutgers, Biomedical Eng/CBE

Title (TBA)

Speaker: Emmanuel Dimotkis
L/Oreal US

Other speakers pending company approval

This symposium is intended to bring the local polymer science and biomaterials community up to date on recent developments in the use of polymers as drugs and as media for drug delivery. Through a combination of reviews 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 the use of polymers in the pharmaceutical industry.

This event features presentations, posters and networking opportunities at a mixer and the poster session at the end of the symposium. In addition to posters on polymers in drug delivery, general polymer posters are being requested. There will also be a jobs center.

Poster Session

Submit poster title and abstract (200 words max, no graphs, tables or figures) to: Robert Falcone (Controlled Release Society, rpf2@njit.edu).

Date: Thursday, May 20, 2010

Times: 1:00 PM to 6:30 PM
registration begins at 12 noon

Place: Rutgers University
Busch Campus Student Center
59 Biel Road
New Brunswick, NJ

Cost: ACS Member, \$40; non-member; \$50; student, \$25. **After March 4, 2010**, member \$45, non-member \$55, student, \$30.

Registration: Please register on-line at <http://www.njacs.org/ptg.html> or send your full contact information along with a check made payable to NJACS-Polymer Group to Willis B. Hammond, Treasurer, NJACS-PTG, 128 Center Ave., Chatham, NJ 07928.

(continued on page 10)

NoJ POLYMER TOPICAL GROUP

(continued from page 9)

Poster Submission: Contact Robert Falcone (rf2@njit.edu).

Exhibits & Commercial Posters: Nicole Harris (Sun Chemical) (nicole.harris@sunchemical.com)

General Information: Willis B. Hammond (wbbhammond1@verizon.net)

Directions: Can be found at the Rutgers University website.
<http://maps.rutgers.edu/building.aspx?44>



STUDENTS 2 SCIENCE

At the February ACS North Jersey Executive Committee meeting, a presentation was made by Dr. Paul Winslow, Co-Founder, and Donald Truss, Executive Director of Students 2 Science ("S2S"). The mission of S2S is to inspire and motivate middle school students to pursue careers in Science, Technology, Engineering and Math. This newly formed New Jersey non-profit corporation was created for the purpose of providing students with hands-on laboratory experience. Middle school students visit the lab and conduct four experiments while working side by side with local professionals who have volunteered.

S2S's programs are designed to generate excitement and instill confidence for subjects that are traditionally viewed as difficult. Student grades and affinity for Science showed improvement after attending pilot programs.

In addition to the program described above known as "A Day in the Life of a Scientist", S2S offers other programs. "Supercharged Science" is a full year program for 7th and 8th grade students which involves three to four visits to the Technology Center per year as well as integrated experiments designed to run at the students' school. "Virtual Laboratory" or "V-Lab" provides interactive lab sessions which support schools without lab facilities and those in remote areas. Continuing Education is also offered by S2S to train teachers and provide assistance for guid-

ance counselors. Internships, Externships and Co-ops are also part of the program. S2S's Community Outreach involves formal Girl Scout and Boy Scout programs which teach young men and women effective job skills, involve visits to the Lab, and provide them with the opportunity to earn merit badges in Chemistry, Engineering, Electronics, Nuclear Science and other fields.

It has been an exciting first year for Students 2 Science. A great deal has been accomplished since the Foundation's inception almost one year ago. Most of the initial goals have been met or surpassed. For example:

- The second pilot program was successfully completed and confirmed the results of the prior program. Student test scores improved significantly with 71% improving their test score after participating in the one day program.
- Excellent progress was made in Fundraising. S2S obtained over \$3M of laboratory instrumentation and exceeded its 2009 goal of \$150,000, by raising over \$180,000.
- In November, S2S took occupancy of their first 4,000 square foot Technical Learning Center in East Hanover, New Jersey. This state-of-the-art Technical Lab is complete with HPLC, GC, IR, UV, and even Dissolution. The first classes were held in March.
- The Foundation has selected and collaborated with several public and private schools, and have a number of other schools waiting to participate.

Other highlights from the past year include:

- S2S received \$50,000 from Daiichi Sankyo Pharmaceuticals to cover the participation of 150 students from Newark Science Park High School in the program.
- S2S has developed lesson plans by integrating innovative laboratory programs with in class curriculums in conjunction with our participating schools.
- S2S has made plans to open an in house laboratory at Liberty Science Center in Newark.
- S2S has received support and/or

pledges from over 20 Corporate Sponsors including Dow Chemical, Teva and Novo Nordisk.

Students 2 Science is well positioned to forge ahead with their programs. In the coming years, their goal is to raise one million dollars, allowing them to open two additional Technical Learning Centers in New Jersey, reaching approximately 30,000 students. Based on their success in New Jersey, S2S expects to open similar learning facilities around the country.

The program concept of Students 2 Science originated in 2008 when a "day of science" was conducted for a group of 8th grade students. These students had the chance to work side by side with professional scientists performing experiments using sophisticated laboratory instrumentation. Students 2 Science hopes to bring the same experience to students throughout the state and around the country, and ultimately, to reverse the downward trend

in technological literacy in the United States.

Following the NJACS Executive meeting in February information on S2S was sent out via email to the membership, including an S2S prospectus and other materials for members to submit to philanthropy executives at their place of business. S2S has found a great way to provide students with the opportunity to significantly enhance their education, and to encourage young students to pursue careers in the science and technology. There are many ways you can help support S2S in their mission to improve technological literacy in the U.S. Please visit the website at www.students2science.org to learn more.

**Learn more about the
North Jersey Section at
www.NJACS.org**

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Dr. Sabrina G. Sobel, Chair, Department of Chemistry,
151 Hofstra University, Hempstead, NY 11549-1510
Sabrina.Sobel@hofstra.edu

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New York Meetings

www.newyorkacs.org

ACS NEW YORK SECTION MEETINGS FOR 2010

The Board of Directors Meetings for 2010 are:

Friday, June 4
Friday, September 10
Friday, November 19

The regular Board Meetings will be held at St. John's University, 8000 Utopia Parkway, Jamaica, NY, in the Library's Writing Center. They are open meetings and all are welcome.

For more information, please visit the New York Section website at <http://www.NewYorkACS.org>.



CHEMICAL MARKETING & ECONOMICS GROUP

New World — A View of the Post-Recovery Global Chemical Industry

Speaker: Robert Westervelt
Editor-in-Chief, *Chemical Week*

Date: Thursday, May 6, 2010
(Note: this topic and speaker have been moved up one month; previously shown for June 3rd)

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

Place: Club Quarters
40 West 45th Street
New York, NY

Cost: \$55 for Members; \$65 for Guests.
EARLY-BIRD RATES: \$45 for Members (and \$55 for Guests) who reserve **by Monday, May 3, 4:00 PM**

To Reserve: Please reserve early to be eligible for the discount price. We now accept all major credit cards via PayPal ("Reserve Now" link on www.nyacs-cme.org), or call Vista Marketing at (917) 684-1659, or via E-mail to cmegroup@mac.com

* * * * *

Next Meeting: Thursday, June 3rd, 2010

WESTCHESTER CHEMICAL SOCIETY



Science Café

Science cafes are gaining momentum across America – now New Rochelle will host its own, at the library and various local restaurants. Like events in other major cities, the New Rochelle Science Café will involve lively conversations with renowned and “accessible” scientists about current science topics.

Open to everyone, the event is designed to be informal, welcoming gatherings with inclusive discussions in plain language. No experience is necessary! Scientists and non-scientists are encouraged to participate in the monthly sessions, made possible through a partnership between the library, Dr. Jerome Levkov at Iona College (jeromelevkov1@gmail.com), and the New Rochelle Downtown BID.

Join us for an evening that will generate stimulating conversation, cutting edge information, and insightful questions for further personal exploration.

Why the U.S. is not Prepared for Major Disasters - and What We Need to Do Now

Speaker: Irwin Redlener, M.D.
Professor of Clinical Population and Family Health Director
National Center for Disaster Preparedness
Columbia University
Mailman School of Public Health & President
Children's Health Fund

Date: Tuesday, May 11, 2010
Time: 7:00 PM

Learn more about the
New York Section at
www.NewYorkACS.org

LONG ISLAND SUBSECTION

Thirteenth Annual Frances S. Sterrett Environmental Chemistry Symposium to be Held at Hofstra University

“Sustaining the Green Revolution”

Speaker: Kate Murray
Supervisor, Town of Hempstead

“Green Chemistry at Worcester State College: Lab Curriculum Development and Development of an Undergraduate Green Chemistry Research Course”

Speaker: Dr. Margaret E. Kerr
Associate Professor
Worcester State College

“Meeting the Challenge of Reducing Green House Gas Emissions in New York State”

Speaker: Dr. Patrick Looney
Assistant Laboratory Director for Policy and Strategic Planning
Brookhaven National Laboratory

The annual Frances S. Sterrett Symposium is dedicated to presenting the public with up-to-date, factual scientific information on environmental topics.

Ms. Murray will present information on the status and progress of the recycling and e-cycling programs in the Town of Hempstead.

This symposium is sponsored by the American Chemical Society, the American Institute of Chemical Engineers, the Ideas Institute of Hofstra University and Hofstra University.

Efforts are underway to determine eligibility of the symposium for professional development credits for engineers and educators. For further information, please contact Dr. Margaret Hunter, 516-463-5556 or margaret.a.hunter@hofstra.edu.

Date: Thursday, May 20, 2010

Times: 8:30 AM – 2:00 PM

Place: Hofstra University

Cost: Registration Fee (includes lunch):
\$25 for members of ACS or AICE
\$35 for nonmembers
\$17 for students

Watch for updates at the New York Section website: www.newyorkacs.org

**BIOCHEMICAL TOPICAL GROUP
— JOINT MEETING WITH THE
NYAS BIOCHEMICAL PHARMA-
COLOGY DISCUSSION GROUP****Estrogen Receptor Signaling in the Brain: A Trip Down Memory Lane**

Organizers: Feng Liu
Pfizer

Jennifer Henry, PhD
The New York Academy
of Sciences

Actions of estrogens are mediated via estrogen receptor ER α and ER β , both of which are widely expressed in the CNS. Estrogens have long been implicated in influencing memory processes, yet the molecular mechanisms underlying these effects and the roles of the estrogen receptors alpha (ER α) and beta (ER β) remain unclear. This symposium will start with an overview of estrogen and memory formation and the mechanisms of its actions, including effects on cell morphology, synapse formation, cellular signaling, and neuronal excitability. Physiologic and pharmacologic forms of estrogen affect cognitive behavior in mammals, which may be applicable to treatment of diseases with impaired cognition. To elucidate the mechanism underlying estrogens actions, the meeting will investigate how estrogen rapidly modifies the structure of synaptic spines and their underlying cytoskeleton. Acute infusions of β -estradiol cause a rapid modest, and reversible increase in the size of field EPSPs and promote theta burst-induced long-term potentiation in hippocampal area CA1. These acute effects on synaptic responses and LTP involve signaling pathways leading to actin polymerization within dendritic spines. Complementing these studies, the effects of estrogen on hippocampal synaptic plasticity and memory, as mediated through ER β , will be examined. Selective ER β agonists increase key synaptic proteins and induce morphological changes in hippocampal neurons in vivo, enhance LTP and improve performance in hippocampus-dependent memory tasks. In addition, the differential impact of ER α and ER β activation on AMPA-receptor subunit GluR1 and associated proteins will be discussed. This data set suggests that targeting ER β may have therapeutic potential without the feminizing effects of estrogen.

(continued on page 14)

BIOCHEMICAL TOPICAL GROUP

(continued from page 13)

New insights will be presented from studies of young and aged female non-human primates on the interactive effects of aging and estrogen treatment on neuronal architecture and synaptic organization in hippocampus and prefrontal cortex. These data have important implications for the neurobiological basis of cognitive aging and also demonstrate the potential for protection against these age-related synaptic alterations and the related cognitive decline. This session will show the critical importance of estrogen signaling for memory formation and start to describe recent advances in dissecting out the pathways underlying these effects. This research should have a profound impact on how we consider estrogen-based therapies for diseases with memory deficits.

Date: Tuesday, May 25, 2010

Time: 1:00 PM – 5:00 PM

Place: New York Academy of Sciences
7 World Trade Center – 40th floor
250 Greenwich St. (at Barclay St.)
New York, NY

Cost: NYAS Members, BPDG Affiliates, and NY-ACS Members may attend BPDG meetings free of charge. Non-members may attend for a fee of \$20 per event; Student Non-members for \$10.

Reserve a seat on-line at: www.nyas.org

To become a Member of the Academy, visit www.nyas.org/benefits



LONG ISLAND SUBSECTION

21st Long Island-ACS High School Awards

Awards will be presented to students receiving the highest mark in chemistry from Suffolk, Nassau and Queens high schools. Dinner for each nominee and a guest is followed by an Awards ceremony at which each nominee is presented with a plaque by the Chair of the Long Island Subsection. A guest speaker will present on a timely scientific topic.

Invitations will be mailed shortly. To submit nominations and for detailed information, visit the HS Awards page of the LI-ACS website at <http://www.newyorkacs.org/islandawards.html>.

Date: Thursday, June 3, 2010

Time: 6:00 PM

Place: SUNY Old Westbury
Student Union Multipurpose Room





EMPLOYMENT AND PROFESSIONAL RELATIONS COMMITTEE OF THE NEW YORK SECTION

To Human Resources Departments in Industry and Academia

The Employment and Professional Relations Committee maintains a roster of candidates who are ACS members seeking a position in the New York metropolitan area. If you have job openings and would like qualified candidates to contact you, please send a brief job description and educational/experience background required to hessytaft@hotmail.com.

Candidates from our roster who meet the requirements you describe will be asked to contact you.





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ASSOCIATION OF CONSULTING CHEMISTS & CHEMICAL ENGINEERS

From Bench to the Clinic: Discovering and Development of Hepatitis C Virus Antivirals

Speaker: David Olsen, Ph.D.

Authors: ¹David Olsen,* ¹Steve Carroll, ²Larry Handt, ³Ken Koeplinger, ³Christine Fanzozi, ³Rena Zhang, ¹Donald Graham, ⁴Malcolm MacCoss, ⁴Nigel Liverton, ⁴John McCauley, ⁴Michael Rudd, ⁴Joseph Vacca, ¹Daria Hazuda, ¹Steven Ludmerer

Summary: Current therapies to treat hepatitis C virus (HCV) infection consist of combinations of pegylated interferon- α and ribavirin which have significant side effects and are of limited utility in patients infected with HCV genotype 1, the most prevalent genotype in developed countries. Efforts to develop novel therapies with enhanced efficacy and tolerability have focused on direct antiviral agents targeting the virally encoded RNA polymerase, NS5B, and protease, NS3/4A. To develop an understanding of PK/PD relationships using an animal model of chronic infection, HCV-infected chimpanzees were administered MK-0608, an inhibitor of the HCV RNA polymerase, or MK-7009, a macrocyclic inhibitor of the HCV NS3/4A protease, at differing dose levels, durations, or routes of administration. Short-term administration of either MK-0608 or MK-7009 to HCV-infected chimpanzees resulted in profound viral load suppression. The results for MK-0608 indicated a steep PK/PD relationship, with a 10-fold difference in dose resulting in a 10,000-fold difference in viral load suppression. Dose-dependent differences in efficacy were also observed with MK-7009. Resistant viral variants were detected in rebounding viral populations in chimpanzees dosed with either compound. Over 3 logs of R155K variant resistant to MK-7009 was detected predose and persisted as a significant fraction of the circulating viral population far longer after cessation of dosing than did an S282T variant resistant to MK-0608, suggesting the R155K virus has a replication fitness similar to wild-type virus. The results of these studies regarding efficacy and potential for development of antiviral resistance have

informed the strategy for clinical development of the compounds.

Footnotes: ¹Antiviral Research (WP), ²Laboratory Animal Research (WP), ³Drug Metabolism (WP), ⁴Medicinal Chemistry

BIOGRAPHY: David Olsen, Ph.D. has an undergraduate chemistry degree and trained as a biochemist at University of Maryland, College Park MD. David completed postdoctoral research at the Max-Planck Institute for Experimental Medicine (Göttingen, Germany) where he utilized chemistry, molecular biology and biochemical techniques to investigate structure/function of catalytic RNA. After completing his postdoctoral training, David joined the Antiviral Department at Merck in 1991.

David has more than 18 years of antiviral drug discovery and development experience with 59 publications. His career interests have focused on HIV-1 protease and reverse transcriptase and hepatitis C protease and polymerase inhibitory mechanisms. His other research interests include mechanisms of antiviral resistance and enzyme-nucleic acid interaction studies. In 2007 and 2008 David served as a Senior Director and Head of the Department of Antiviral Research in West Point Pennsylvania. In 2009 he transitioned to External Basic Research where he functions as the Site Lead for the Infectious Disease franchise.

In this new role, David expanded his area of drug discovery research to cover Merck's external research pipeline in the areas of antibacterial, antifungal and antiviral research. His team is responsible for directing a dozen programs based in China, Japan, India and Russia.

Date: Thursday, May 27, 2010

Time: Networking/Cash Bar 6:00 PM
Dinner 6:30 PM
Presentation 7:30 PM

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

Cost: \$35 ACC&CE Members
\$45 Non-members

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

accce@chemconsult.org

(OTHERS — continued on page 16)

RUTGERS PHARMACEUTICAL ENGINEERING PROGRAM

Announces Newly Approved Master of Engineering (M.E.) in Pharmaceutical Engineering and Science Degree

The pharmaceutical industry is increasingly looking for engineers and pharmaceutical scientists with current and advanced training in pharmaceutical engineering, and the M.E. in Pharmaceutical Engineering and Science was developed to address this need. The M.E. has been set up using the framework of a professional Masters degree. The M.E. in Pharmaceutical Engineering and Science is administered by the Department of Chemical and Biochemical Engineering at Rutgers. We are now accepting applications for the Fall, 2010 semester.

Further information can be found at <http://pharmeng.rutgers.edu> which discusses details of the degree. A brochure is available at: <http://pharmeng.rutgers.edu/PharmEngMasters.pdf>



NORTHEAST REGIONAL MEETING, NERM 2010



The 2010 American Chemical Society Northeast Regional Meeting, NERM2010, will be held **June 2-5**, at the SUNY Potsdam campus, New York. The theme of our event is "Chemistry for a Sustainable World". Our keynote speakers, including Dr. Catherine T. Hunt (2007 ACS president) from Dow Chemical, Prof. Paul T. Anastas from Yale University and Prof. Vicki L. Colvin from Rice University, will elaborate on this theme, headlining our technical sessions on green and environmental chemistry. The meeting features 25 special symposia with particularly strong programming in physical chemistry and nanotechnology; biomedical and biochemistry; analytical chemistry; organic/medicinal chemistry; and chemical education. There will be a strong program for K-12 educators on Saturday June 5. ACS regional meetings provide a high level of scientific discourse, excellent networking opportunities, and are great value for money. We invite you to visit our website: www.nerm2010.org, to learn more about our special symposia, our many distinguished invited speakers, and about the wonderful social and networking

events planned for this meeting. We also invite you to present your research: the meeting is open for abstract submission **until April 20**.

Conference chair: Martin Walker, Dept. of Chemistry, SUNY Potsdam

Program chair: Maria Hepel, Dept. of Chemistry, SUNY Potsdam.



TRISTATE CHINESE AMERICAN CHEMICAL SOCIETY

Opportunities for Chemistry in a New Decade: Impact on and Around Us

The Tristate CACS symposium traditionally features keynote speeches and networking opportunities. Senior executives or renowned scientists from the major chemical, consumer and pharmaceutical companies in the Tristate area are invited to give keynote presentations. It is noted that the president of American Chemical Society, Dr. Joseph S. Francisco, will give a keynote speech at the incoming symposium. In addition, the symposium will continue to have an all-day Vendor Exhibition to go along with the presentations. Interested vendors are welcomed to promote their brands or products at the symposium. Detailed agenda of the symposium will be available soon at <http://tristatecacs.org>

The Tristate CACS is an organization of professionals and students in chemistry, chemical engineering, and related fields. It has about 1000 active members based in CT, NY, NJ, PA, and DE. In recent years the Tristate CACS symposia attracted 200 to 300 members and non-member attendees each time and have seen steady growth in attendance. The organizers are confident that the audience size will continue to grow this year.

Date: Saturday, June 26, 2010

Times: 8:00 AM to 4:00 PM

Place: Busch Campus Center
Rutgers University
Piscataway, NJ

To inquire about Tristate CACS or 2010 Symposium, please contact Dr. Fangbiao Li (President Elect 2011, fanbiaoli@hotmail.com) or Dr. Duxi Zhang (President 2010, duxu.cacs@gmail.com). For Vendor Exhibition information, please contact Dr. Wendy Zhong (Vendor Coordinator, wendy.zhong@spcorp.com).

NUMERICAL ALGORITHMS GROUP MARKS 40TH ANNIVERSARY

The Numerical Algorithms Group (NAG), a world leader in high quality computational software and high performance computing services to tens of thousands of users in major academies, Global 500 companies, and the world's leading supercomputing sites among others, announces that it will mark its 40th anniversary in 2010 by expanding its student prize program, with a new awards intended to cultivate the next generation of numerical software talent worldwide — (http://www.nag.co.uk/about/student_awards.asp).

The new NAG 40th Anniversary Awards are intended to help nurture the next generation of leaders in science and computing like Google's Stu Feldman. In the spirit of NAG's four decades of collaboration with leaders in computing, academia and industry, NAG will be inviting departments, from institutions across the world, to become involved with the student prizes. Awards will be offered for the best performances in a Masters of Science program, best projects and/or best numerical solutions.

Other NAG funded prizes include The Wilkinson Prize for Numerical Software; the NAG Prize in Applied Numerical Computing and the NAG Prize in Mathematical Finance (http://www.nag.co.uk/about/student_awards.asp).

Call for Nominations

EDWARD J. MERRILL AWARD FOR OUTSTANDING HIGH SCHOOL CHEMISTRY TEACHER FOR 2011

Now is the time to begin thinking about nominations for the Edward J. Merrill Award, North Jersey Section, for Outstanding High School Chemistry Teacher for the year 2011.

Go to the web site, njacs.org under education and obtain your preliminary nomination form and guidelines. The full packet takes time to do a good job!

We all know an outstanding high school chemistry teacher. Perhaps one from your town, your son's or daughter's teacher or just one that you have heard about or worked with at some point. The award carries \$500 for the teacher, \$500 in supplies for the teacher's classroom and a plaque to

display at home or in the classroom.

Any questions or help needed contact George Gross, njmoxie1@verizon.net.



DISTINGUISHED SCIENTIST AWARD

The **Westchester Chemical Society**, New York subsection, is seeking nominations for the its Distinguished Scientist Award. The nominee must either work or reside in Westchester County, New York. The award is presented in May, 2010. Send nominee resume to: Dr. Joseph Sencen, 5 Summit Circle, Somers, New York, 10589 or jsencen@optonline.net

ACS News

ACS Announces the 2010 Schedule for Short Courses

Our 2010 Schedule is out! Find out which courses are being offered in what cities at www.proed.acs.org/2010.

The ACS Office of Professional Education has dramatically revamped its website and registration system so you can find the courses you're looking for in no time. Bookmark this link today: www.proed.acs.org. You can now search our short courses, webcast courses, and ProSpectives Conferences by topic area, date, or location and even browse our full instructor list.

We are continuously investing in new course development, so if you don't see what you're looking for, just drop us a line at shortcourses@acs.org, and we'll do our best to serve your technical training needs.



Your Travel Budget's Cut, But You Still Need Training? Try an ACS Webcast!

Few companies are immune from the economic hardships in the headlines, and many budgets have been trimmed. But it is still

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Travel Budget Cut?

(continued from page 17)

crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics.

Join the ACS Webcast mailing list at www.proed.acs.org/emailme to be the first to hear about the 2010 schedule, try out new courses for free, and receive discounts not available to the general public! Save your time and money and take a look at the courses available online through ACS.

ACS Webcast Short Courses provide the same quality training that ACS has long been known for. However, the courses are presented over the Internet, so they offer added convenience and flexibility.

- Economical. Most ACS Webcasts cost less than \$100 an hour, which is far less than most technical training.
- Easy. Our technology is easy to use and works with all typical computer systems, so virtually anyone can easily view a webcast from the comfort of their home, office, or lab.
- Convenient. Class attendance is NOT required. If you miss a class, simply use your on-demand access to the session recording so you can catch up on your own time.
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There are expanded course offerings in analytical, organic, pharmacology, engineering, instrumentation, and other areas. For the full list of Webcast Short Courses and more information on available discounts, visit www.proed.acs.org.

Submit photos (remember to include captions and photo credits) for use in *The Indicator* by e-mailing Photos@TheIndicator.org

Tools for Chemists

Career Resources at Your Finger Tips

Are you looking for a job? Making a transition to a second career? Or looking to advance your career? You may find some helpful resources at www.theindicator.org and www.acs.org/careers:

1. Careers in Transition (CiT) group. A North Jersey group where ACS members can network and attend free career-related workshops. See page ____.
2. Jobs Database. Over 7,500 employers post job openings representing industry, academe, and government. Employers continually post jobs and search the site for qualified candidates. Be the first to know when jobs matching your criteria are posted by creating job alerts.
3. Career Fair and Workshops at the ACS National Meetings. Apply for hundreds of jobs and participate in on-site interviewing from top employers who go to the ACS National Meetings to recruit. Attend career workshops at National and Regional meetings.
4. Webinars (Thursdays 2:00-3:00 PM ET). Gain practical information and tools by participating in speaker series on wide variety of career and business topics such as maximizing your job search, consulting, and many more.
5. One-on-One Career Consulting. ACS members receive valuable advice in one-on-one career consulting sessions – over the telephone or at the ACS Career Fair. The personal sessions are designed to help you hone your job search strategies, create and update your resume, prepare for interviews, and develop networking plans.
6. ACS Center for Professional Development. An online training center providing opportunities for professional advancement through web-based and instructor-led courses. Whether you need to know the quickest route to the corner office, the proper way to format your résumé, or the latest instrumental techniques, or you'll find a course at the Center:
 - 17 Leadership instructor-led and online courses
 - 42 ACS-Harvard online courses
 - Hundreds of technical courses

Councilors' Corner

By Anne Kelly, North Jersey Section

I am currently a member of the National Committee on Economic and Professional Affairs (CEPA). The committee's mission is to identify and monitor the career needs of the chemical workforce, and develop, coordinate, and oversee the implementation of programs and activities to enhance the economic and professional status of chemical professionals.

CEPA works with the ACS Division of Career Management and Development to create and run these programs. The subcommittees within CEPA develop new career programs and employment services, monitor the existing programs, and manage the ACS surveys. The Public Policy subcommittee works to identify and promote issues of importance to the chemical workforce, and the Standards and Ethics Subcommittee works to monitor and investigate trends and issues related to professional standards and ethics of the chemical professional. The committee meets on Saturdays and ½ day Sundays before the each national meeting.

This is my 3rd year on the committee and it has been a very rewarding experience. I was recently appointed chair of the standards and ethics subcommittee. I am also a member of the Professional Program Development subcommittee, where we bring forth ideas and plans for the new programs. As you are all aware, the past few years have seen large changes in employment trends in the chemical industry. We are focusing on creating programs and services that our members really need during these changing times. We are also working to promote our current programs.

Please take a few minutes to visit the ACS careers webpage — www.acs.org/careers. There is a lot more there than just job postings! We have programs for professional development (both on-line and classroom led), career advice, survey results, our ethics and professional guidelines, and free webinars on a variety of subjects.

I'd welcome your input on how we can improve our programs; feel free to contact me at anne.kelly@bms.com.

By Alan Cooper, North Jersey Section

The main objective of being a councilor for the North Jersey Section, one of the largest sections in the ACS with over 6000 members, is to properly represent the North Jersey Section membership's interest both within the Section and at the National level. I am fortunate to have been elected by the membership for several terms that gave me the opportunity to represent the section by serving nationally on the Divisional Activities Committee, Local Section Activities Committee and the Meetings & Expositions Committee.

As member of the Divisional Activities Committee (DAC) for 6 years, I had the responsibility to contribute to the oversight and coordination of activities of divisions of the Society to ensure that the fields of interest, as they develop, serve the members. The committee also recommends policies to Council and the Board of Directors to enhance the effectiveness of the divisions and the Society.

I also enjoyed being a member of the Local Section Activities Committee (LSAC) for over 6 years where I helped work with local sections to enhance their success, promote the well being of their members, foster the spirit of volunteerism and carry out the mission of the American Chemical Society at the professional and community level. I was also a member of the Tools, Technology and Operations subcommittee of LSAC that is responsible for updating and streamlining the Local Section annual report relative to ACS strategic plan and other committee issues. TTO also explores applications of modern technology to impact local section activities and communicate LSAC core values. One very important activity of TTO is to be a resource to local sections in providing guidance towards website set up and maintenance.

I am presently serving on the Meetings & Expositions Committee. Their main mission is to study and make recommendations to Council concerning policies and problems of meetings and expositions operated by the Society, its Divisions and Local Sections. They also study and recommend meeting dates, locations for national meetings and cooperate with the Committee on Divisional Activities in areas of mutual interest. To accomplish all this, the Committee functions through 4 subcommittees on Sites, Expositions, Technical Programming and Regional Meetings. I am presently a member of the later which is a good match for me since I can contribute my knowledge of having been the 2005 Middle Atlantic Regional Meeting (MARM) General Co-Chair.

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