

Chesapeake Chemist

Maryland Section
American Chemical
Society



~ Dr. Jean M. J. Fréchet ~

Professor of Chemistry and Chemical Engineering, Henry Rapoport Professor
University of California - Berkley

(<http://chem.berkeley.edu/faculty/frechet/index.php>)

"Designing macromolecules for therapeutics"

Wednesday, September 16, 2009 – 6pm – Johns Hopkins University, Baltimore, MD

Message from the Chair

Dear Fellow Members,

We hope you had a great summer and are looking forward to the Maryland Section's Fall programs. On Tuesday, August 18th, the office of Local Sections Activity Committee (LSAC) held its annual meeting during the National ACS Conference in Washington, D.C. There were several interesting new activities that are being developed, of which I will forward you information as it is released from the Washington office. Among the topics discussed are the following related to the mission and vision of your office of LSAC.

Local Section Activities Committee (LSAC)

Mission Statement

LSAC will work with local sections to enhance their success, to promote the well-being of their members, to foster the spirit of volunteerism, and to carry out the mission of the American Chemical Society at the professional and community level.

Vision Statement

The Local Section Activities Committee will continue to focus on ACS members at the local section level so that local sections will:

- Access tailored ACS services delivered by various means that include transitioning toward electronic delivery via the Internet
- Effectively partner with Divisions and other units
- Increase member participation in local section events and programs
- Be infused with leaders having acquired leadership skills for developing sustainable activities and programs that foster member volunteerism and ensure value and satisfaction
- Receive customized feedback and recognition that focuses on the development of each local section to realize its full unique potential
- Clearly identify and value the Local Section Activities Committee as a key peer resource

As of August, 2009, the Maryland section has 2092 members. We are in the process of reaching out to each of you, making sure you all are receiving the newsletters and soliciting your assistance for programs, ideas, and service to your organization. We hope you have a great year, and we look forward to meeting each of you this coming year.

Sincerely,

Walter A. Roy, Jr.
2009 Chair, Maryland Section

September Meeting - Remsen Award

Wednesday, September 16, 2009 - 6-9:30pm - Johns Hopkins University, Remsen Hall, Room 101, Baltimore, MD

6-6:45 pm Registration, refreshments and networking - Remsen Hall, Room 101

7-8:15 pm Remsen Award & Presentation - Remsen Hall, Room 101

Dr. Jean M. J. Fréchet

Professor of Chemistry and Chemical Engineering

Henry Rapoport Professor - University of California at Berkeley

"Designing macromolecules for therapeutics"

~Question and Answer (10 minutes)~

8:15-9:30 pm After-lecture reception and party (Heavy Hors D'oeuvres served)
Room 140 and Hallway - Room 101, Remsen Hall

Contact: For questions, contact Shirish Shah at 410-323-0803 (H) or by email at dr.shah@juno.com

Where: **Johns Hopkins University:** 3400 North Charles Street, Baltimore, MD 21218- directions at:
(<http://mdchem.org/meetings/JHU.html>)

~ Directions, Abstract, & Speaker Information continued on Page 4 ~

ACS Maryland Section - Officers and Committee Chairs

Section Officers:

Chair 2009 - Walter Roy, McCormick & Company, Inc, (410) 771-7886; walter_roy@mccormick.com
Vice-chair (chair 2010) - Alvin Kennedy, Morgan State University, (443) 885-3115; alvin.kennedy@morgan.edu
Chair-elect (chair 2011) - Mike Zapf, McCormick & Company, Inc, (410) 771-7471 ; Mike_Zapf@mccormick.com

Secretary - Sara Narayan, Stevenson University - (443) 334-2326; snarayan@stevenson.edu

Treasurer - Liina Ladon, Towson University, Chemistry Department, 8000 York Road, Smith Hall Rm. 538, Towson, MD 21252, (410) 704-3054, lladon@towson.edu

Councilors:

Merle I. Eiss
McCormick & Co, Inc
meiss32@aol.com

Stephanie J. Watson
NIST
stephanie.watson@nist.gov

David Roswell
Loyola College
droswell@lovol.edu

Charles Rowell
retired
cfrowell35@verizon.net

Alternate Councilors: Shekar Munavalli (ECBC), Shirish Shah (Towson), Paul Smith (UMBC), Joseph Topping (Towson)

Members at Large: Lance Baird (JHU-APL), Maurice Iwunze (Morgan), Angela Wells Winstead (Morgan), Takashi Tsukamoto (JHU)

Committee Chairs:

Student Awards (April) - George Farrant - (410) 455-4120; gfarrant@yahoo.com

MD ACS Student Grants - Travel & Student Affiliate Awards (February/March) - Paul Smith, pjsmith@umbc.com
or Louise Hellwig, Louise.Hellwig@morgan.edu

Remsen Award (May/June) - Lev Ryzhkov; lryzhkov@towson.edu

Braude Award (October) - Charles Rowell

Maryland Chemist Award (December) - Angela Sherman - (410) 532-5713; ASherman@ndm.edu

Maryland Service Award - Shree Iyengar - (410) 777-2266; ssiyengar@aacc.edu

Programs:

Archives - Ernie Silversmith - (443) 885-3214
Career Planning - Linh Cheong - (410) 762-1159
Earth Day - Paul Smith, Lance Baird
(Lance.Baird@jhuapl.edu)
Environmental Issues - Shirish Shah - (410) 704-2720
sshah@towson.edu & Lance Baird
Finance Committee - Jan Kolakowski - (410) 436-2755
jan.kolakowski@us.army.mil
Government Relations - Shirish Shah & Robert von Tersch - robert.l.vontersch@us.army.mil
Long Range Planning - Shekar Munavalli
MARM - Shirish Shah & Paul Smith
Membership - Merle Eiss
Minority Affairs - Alfred Amah - (410) 602-7164;
aamah@coppin.edu
Public Relations - Shirish Shah & Walter Roy,
Walter_Roy@mccormick.com
Retired Chemists - Alvin Bober, 410-581-5321
Student Affiliate Liaison - Louise Hellwig
Women Chemists/Younger Chemists - Sara Narayan -
443-334-2326 / Amanda (Miller) Idstein -
aredmiller@cs.com

Educational Programs:

Chemistry Olympiad/Chem-a-Thon -
Shirish Shah & Mike Zapf,
Mike_Zapf@mccormick.com
Continuing Education/High School Education -
Shirish Shah / Ellen Pisciotta
Kids & Chemistry/Chemistry-in-the-Library -
Sue Procell, 410-436-4604,
suzanne.procell@us.army.mil / Sandy Young
National Chemistry Week (NCW) -
Shirish Shah & Sandy Young

Maryland Section on the Web: <http://mdchem.org>

Webmaster - Sandy Young (mdchem@mdchem.org)

Chesapeake Chemist Editor:

(mdchem@mdchem.org)

Have a job to post?, a good news chemistry story? - contact the Maryland Executive Committee through e-mail via: (mdchem@mdchem.org).

Abstract: “Designing macromolecules for therapeutics”

This lecture will focus on research aimed at the design and polymers and polymer particles as delivery vehicles for therapeutic or diagnostic applications. Polymers can be used designed to carry a payload of drug or imaging agent within the body. In such applications the size, topology, and functionality of the polymer are important design considerations. These features can be controlled to delay renal exclusion, avoid, or sometimes favor reticuloendothelial uptake; functional groups are important to control solubility, targeting, and to adjust the size of the biological payload. Typical carrier designs we use for chemotherapy make use of acid-cleavable linkages to provide a release point located between the soluble carrier and its payload. For immunotherapy, we focus on water-compatible polymer micro- and nano-particles capable of encapsulating a payload such as a protein antigen, DNA or Si-RNA for delivery to specific cell types. The design rules and the synthetic approaches used to obtain these macromolecular carriers will be described.

About the speaker



Dr. Jean M. J. Fréchet

**Professor of Chemistry and Chemical Engineering
Henry Rapoport Professor**

email: frechet@berkeley.edu

office: 718 Latimer

phone: 510.643.3077

(<http://chem.berkeley.edu/faculty/frechet/index.php>)

Speaker Bio:

Jean Fréchet was born in France and received his first university degree at the Institut de Chimie et Physique Industrielles (now CPE) in Lyon, before moving to the US to earn Ph.D. degrees in organic and polymer chemistry from the State University of New York and from Syracuse University.

He joined the Chemistry Faculty at the University of Ottawa in Canada in 1973 then moved to Cornell University in 1987 as the IBM Professor of Polymer Chemistry then the Peter J. Debye Chair of Chemistry. In 1997, Jean Fréchet joined the Chemistry Faculty at the University of California, Berkeley where he holds the Henry Rapoport Chair of Organic Chemistry and is also Professor of Chemical Engineering and a Scientific Director of the Molecular Foundry, Lawrence Berkeley National Laboratory.

A member of the US National Academy of Science and the US National Academy of Engineering, he has authored about 800 scientific papers, holds over 70 United States patents as well as numerous foreign patents, and has been involved in numerous start-up companies.

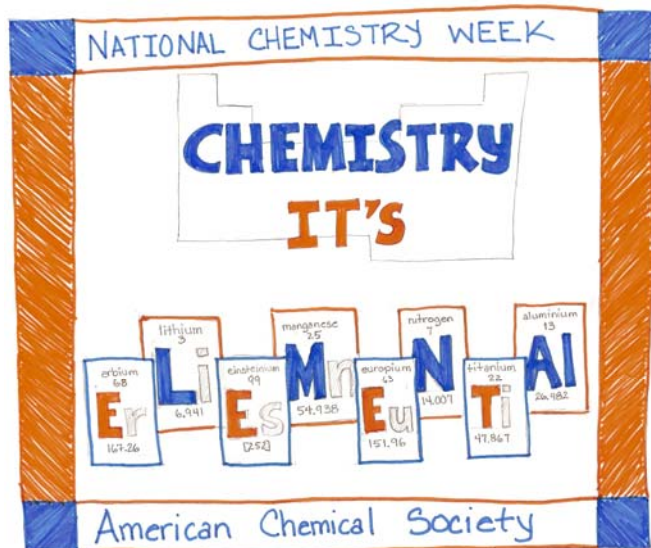
His research at the interface of organic and polymer chemistry is directed towards functional macromolecules, their design, synthesis, and applications. A variety of topics ranging from the design of materials for energy harvesting and conversion to artificial enzyme-like catalysts and polymers for targeted drug delivery and immunotherapy are being explored.

Student Affiliate (SA) Corner

Johns Hopkins University – Dr. J. D. Tovar

In May, the JHU group initiated what will hopefully evolve into regular visits to Baltimore Talent Development High School to provide hands-on experiments for the three high school chemistry classes of Ms. Tyree. In-class demonstrations were done such as the oscillating clock and Tollens' test while touching upon issues of kinetics and solubility that the students had covered in class. Under volunteer supervision, the classes were broken into groups to do a series of "double displacement" reactions, making observations of their findings and predicting the chemical reactions that occurred and the identity of the products that precipitated. In the future we hope to mesh our class experiments to coincide with subject matter covered in the class. In attendance were JHU undergraduates Adiya Katseff and Kathie Lin and JHU graduate students Anthony Caruso Jr, Stephen Diegelmann and Brian Wall.

Morgan State University – Dr. Louise Hellwig



Ms. Daryl Cunningham, currently a sophomore chemistry major at Morgan State University, won the ACS contest to design the logo (see photo) for this year's National Chemistry Week. The theme is "It's Elemental". Morgan's Chem Club thanks Daryl for the \$500 prize she thereby won for our club.

University of Maryland – Baltimore County – Dr. Tara Carpenter

UMBC had 13 students attend the ACS meeting in DC and 5 students presented posters. Shown on the right is the group photo from a night out at dinner.

Poster presentations included:

- American Chemical Society Student Members at UMBC – Kezia Alexander
- Novel Site Directed Affinity Reagent for Cross-Linking Human Hemoglobin: A Tetra Aldehyde Cross-Linking Reagent – Jessica Michaels
- Synthesis of Potential Inhibitors of Thymidylate Synthesis Based On Quinazoline Structural Skeleton – Nicholas Pinkin
- Development of a Food Quality Indicating Sensor – Cristina Teixeira
- Investigating the Secondary Structure of the Mouse Melanopsin Carboxy-Tail – Katherine Woronewicz





Fall 2009 - Important Dates



September 16, 2009	Section Meeting - Remsen Award & Dinner - Johns Hopkins University
October 18-24, 2009	National Chemistry Week! - Chemistry - It's Elemental!
October 21, 2009	Section Meeting & Braude Award Dinner - Berkshire Marriott, Towson, MD
November 2009	Section Meeting - Details To-Be-Announced
November 15, 2009	America Recycles Day (http://nrc-recycle.org/americanrecycles.aspx)
December 2009	Section Meeting & Maryland Chemist of the Year Award Dinner



Spring 2010 - Important Dates



February 2010	Section Meeting - Details To-Be-Announced
March 2010	Section Meeting - Details To-Be-Announced
April 3, 2010 (Saturday)	MD ACS Earth Day Community Event - Project Clean Stream - Herring Run Park (Argonne Drive & Harford Road), Baltimore, MD
April 2010	Student Awards Meeting - Date/Location to be determined
April 22, 2010	Earth Day



Outreach

National Chemistry Week 2009 - Chemistry! It's Elemental!

As has been celebrated for over 20-years, National ACS will celebrate National Chemistry Week across the nation during the week of October 18-24, 2009. Everyone has been inspired by someone scientifically in their lifetime... whether a teacher, colleague, or student. It's a good time to consider who inspired you and pass along some of that inspiration to the next generation. National ACS published Celebrating Chemistry and it's available on-line for downloading: http://issuu.com/kate1dc/docs/nw_2009_celebrating_chemistry.

Date:	Location:
Friday, October 16 th , 2009 - 11pm	Miller Library, Ellicott City, MD (Howard County)
Friday, October 16 th , 2009 - 2am	Savage Library, Laurel, MD (Howard County)
Saturday, October 17 th , 2009 - 2pm	Central Library, Columbia, MD (Howard County)
Saturday, October 24 th , 2009 - 10am	East Columbia Library, Columbia, MD (Howard County)
Saturday, October 24 th , 2009 - 2pm	Elkridge Library, Elkridge MD (Howard County)
Sunday, November 8 th , 2009 - 1:30-3pm	Rawlings Conservatory (Baltimore City)
Tuesday, November 10 th , 2009 - 4:15pm	Waverly Library, Baltimore, MD (Baltimore City)

Stop in and join us if you have time!! If you have any questions or want to assist with an event, please feel free to contact us at (mdchem@mdchem.org).

National Chemistry Week Poster Contest:

As part of every annual celebration of National Chemistry Week (NCW), the American Chemical Society (ACS) sponsors a poster contest for students in Kindergarten - Grade 12. This year, students are invited to create a poster that celebrates the 2009 theme "Chemistry - It's Elemental", which commemorates the 140th anniversary of Mendeleev's Periodic Table of Elements. This is a wonderful opportunity to investigate and appreciate the discovery and use of the elements in every aspect of our lives.

Dr. Shirish Shah is the POC for the Maryland ACS contest - 410-323-0803 (H) or by email at dr.shah@juno.com. Posters must be received by Saturday, October 17th in order to be considered for the National Contest. Contest guidelines can be found at: (http://portal.acs.org/portal/PublicWebSite/education/outreach/nw/studentseducators/CNBP_022328)

Councilor Fall 2009 Meeting Report - Washington, D.C.

By: David Roswell

The Council of the American Chemical Society met during the national meeting in Washington, D.C. on Wednesday August 18. The meeting began at 8 AM and lasted past noon. The Maryland section was represented by councilors Merle Eiss, Chuck Rowell and David Roswell.

After the opening call to order a resolution was read and a moment of silence observed in honor of deceased councilors. The minutes of the previous meeting in Salt Lake City were then approved.

The Council then moved to undertake what was to be one of its major tasks in the meeting. After the Committee on Nominations and Elections presented the candidates elections of Councilors to the Committee on Committees, the Council Policy Committee, and the Committee on Nominations and Elections were held. (It should be noted that Merle is completing her term on Nominations and Elections and Chuck his on the Committee on Committees, both were ineligible for re-election).

Oral reports from the elected officers and the Executive Director followed. After reports from the officers standing committees presented reports and presented some petitions for Council action.

- The Council received two amendments to the ACS Constitution and Bylaws for action: The Petition on Candidate Selection by Member Petition – (to be considered for Urgent Action) and the Petition on Election Timelines and Procedures 2009.
 - The Petition on Candidate Selection by Member Petition proposes to permit candidates to be selected by a petition process from members. To be considered for urgent action, the petition required a $\frac{3}{4}$ affirmative vote. After considerable discussion, a vote to consider the petition at the 2009 fall meeting FAILED. Absent urgent action, the Petition on Candidate Selection by Member Petition will now be up for action at the 2010 spring meeting of the Council.
 - Next, the Council discussed in great detail the Petition on Election Timelines and Procedures 2009. This petition proposes to shorten certain election timelines and change petition candidates (who go straight on the ballot if they obtain enough signatures) to petition nominees (who need to be screened by Council along with other nominees chosen by the Committee on Nominations and Elections). After rejecting a request to have a recorded vote, the Council VOTED to recommit the petition to the Committee on Nominations and Elections with instructions. Following this action, N&E sought input through a nonbinding survey to help guide their revisions. A revised petition will likely be up for action at the 2010 spring Council meeting.
- The Council received one petition for consideration: the Petition on Admissions Committee. This petition removes the Admissions Committee from the Bylaws and transfers its functions to the Council Committee on Membership Affairs. Action is expected on the petition at the 2010 spring meeting
- As part of a regular performance review, the Council VOTED to continue the Committees on Chemical Safety, Minority Affairs, Chemical Abstracts Service, Technician Affairs (TECH), and Analytical Reagents. Continuing the first three committees requires Board of Directors concurrence. It is interesting to note that later, on recommendation of DAC (the Committee on Divisional Activities), and as recommended by TECH, the Council VOTED to disband the Division of Chemical Technicians effective December 31, 2009. DAC agreed that TECH has accomplished its mission of enhancing the status of technicians in the American Chemical Society, and now they are integrated into the other technical divisions.
- The Council also VOTED to accept changes to charter bylaws for new local sections and international chemical sciences chapters, and bylaws for divisions in probationary status. These changes, which were developed in cooperation with the Committees on Divisional Activities, Local Section Activities, and International Activities, are a result of changes to the Constitution and Bylaws made as a result of the Petition on Membership Categories and Requirements, which became effective on June 30.

~ Continued on Page 8 ~

As of August 19, 2009, the ACS fall national meeting had attracted 14,319 registrants. This was the largest Washington meeting in history. Totals in select categories are as follows: Regular attendees 8,575; Students 3,159; Guests 462; Exhibit Only 676; and Exhibitors 1,447. In keeping with the objective of the National Meeting Long Range Financial Plan, previously approved by the Board of Directors and Council, the Meetings and Expositions Committee recommended to the Board an increase of \$10 for the 2010 national meeting registration fee. The Board will act on this recommendation shortly.

No subsequent reports led to significant discussion and there being no further business the Council adjourned.

Respectfully submitted for the MD Councilors.

RE-SEED (*Retirees Enhancing Science Education through Experiments and Demonstrations*)

Since 1991, the RE-SEED program at Northeastern University has trained retired scientists and engineers and others with backgrounds in science or mathematics to provide classroom assistance to K-12 science teachers. There are over eighty volunteers assisting science teachers in the greater Boston area. After taking part in a comprehensive training program, participants typically assist in school classrooms one day a week for most of the academic year. The RE-SEED Program is part of the Center for STEM (science, technology, engineering and mathematics) Education at Northeastern University. Other programs focus on science teacher training and student assistance in science learning.

Northeastern University has assisted in the formation of more than fourteen regional volunteer centers where over 600 RE-SEED volunteers have worked in schools in about 100 communities throughout the country, offering approximately 600,000 hours of their time. You can learn more about RE-SEED by visiting their website, www.reseed.neu.edu or by calling Paul Conroy at 617-373-8388 or by email to pa.conroy@neu.edu.

The Center for STEM Education, Northeastern University, 1135 Tremont St., Suite 940 RP, Boston, MA 02120

News from the National meeting:

ACS is now using Twitter. To get news on upcoming events, ask questions to the webinar presenter in advance, or to join group colleagues twittering, please search or include **#acsimp hashtag** in your twitter text.

Show your support to professionals in the chemical industry. ACS is pleased to be hosting a series of monthly Teleconferences and Webinars to address current issues and topics of importance to bio/chemical industry professionals and members. Sponsorship opportunities are available. To learn more about how we can help you reach bio/chemical industry professionals, please contact Samuel Toba at imp@acs.org or call 202-872-4447.

US Chemistry Olympiad – 2009, Maryland Section

We are pleased to have participated in this National Program once again in 2009, the record will show that we've participated in 21/ 25 years. In April, we tested 6 students of our possible 13 slots at the College of Notre Dame in Maryland at the Knott Science Center – we appreciate the use of their facilities. Mr. Pat Bell, Chemistry, prepared the Lab Practical which is one of the three parts of the 5 hour exam comprised also of Multiple Choice and Written-response.

Four of our six students achieved a rating of Honors with one High Honors on their exam certificates. In the latter case, Mr. Richard Li from River Hill High School, was chosen to attend the Olympic Training Camp at the US Air Force Academy in Colorado Springs in July with all expenses covered by National. Local students compete for one of 20 positions at the training camp.

Mr. Li expressed to me his great pleasure at his camp experience and his hope to participate in 2010 when the Olympiad will be held in Tokyo. His report was, "Every day at camp basically consisted of two components: chemistry and eating." He plans to take classes in Organic Chemistry at UMCP this year prior to his HS graduation. A story on the International Olympiad was published in C&E News and several useful links are included.

<http://pubs.acs.org/cen/news/87/i31/8731notw1.html>

Participants:

Alex Kandell and Roger Yamada

Howard Area Homeschoolers, Howard County, MD

Teacher: Catherine Asaro

Henry Zeng

Centennial High School, Ellicott City, MD

Coordinator: Andrea Covington

Matthew Hill and Tim Walter

Mount Saint Joseph HS, Baltimore, MD

Teacher: Bernard Kenyon

Richard Li

Riverhill HS, Clarksville, MD

Teacher: Barbara Jewett

Maryland ACS Annual Picnic – Recap



The annual picnic was held at Patapsco State Park on July 12, 2009. It was a beautiful day. The weather was just perfect for an outdoor event. The Scrabble and Domino contests were loads of fun. It was amazing how much food was consumed. Good company and cooperating mild temperatures probably were responsible for the healthy consumption of hot dogs, chicken and hamburgers. Some of the old timers calculated that the Section has had a picnic each July since 1987. See photos of some of the attendees.





September Historical Events In Chemistry

By: Leopold May

- September 1, 1909 One hundred years ago on this date, Rohm & Hass Co., was founded 1909.
- September 2, 1853 One hundred years ago, Wilhelm Ostwald was awarded the Nobel Prize in Chemistry in recognition of his work on catalysis and for his investigations into the fundamental principles governing chemical equilibria and rates of reaction. He was a researcher on affinity, mass action, theories of solutions, and conductivity (Ostwald's Law of dilution & conductivity) and was born on this date.
- September 7, 1854 Paul Vielle, invented smokeless powder, Poudre B, from gelatinized nitrocellulose mixed with alcohol and ether. He was born on this date.
- September 9, 1929 Westinghouse Laboratories announced the discovery of Konel, a cobalt-nickel alloy, on this day.
- September 10, 1892 Arthur H. Compton, who received the Nobel Prize in 1927 for his research in cosmic & x-rays, was born on this day.
- September 11, 1894 Carl S. Marvel, who did research in organic chemistry and polymer synthesis, was born on this day.
- September 13, 1937 Polaroid Corporation was incorporated on this day.
- September 14, 1698 Charles F. de Cisternay DuFay, who discovered + and - electricity and repulsion between like charges was born on this day. He also did research in phosphorescence and double refraction.
- September 17, 1901 Peter Cooper Hewitt obtained patent for mercury vapor lamp on this day.
- September 22, 1791 Michael Faraday was born on this day. He discovered electromagnetic induction, specific inductive capacity, rotation of plane-polarized light in a magnetic field and liquefied chlorine and other gases.
- September 22, 1909 One hundred years ago on this date, the first liquid chlorine shipped in the US by Electro-Bleaching Gas Co., Niagara Falls, NY,
- September 24, 1905 Fifty years ago, Severo Ochoa and Arthur Kornberg shared the Nobel Prize in Physiology or Medicine for their discovery of the mechanisms in the biological synthesis of ribonucleic acid and deoxyribonucleic acid. Severo Ochoa was born on this date and did research with enzymatic processes in biological oxidation and synthesis and the transfer of energy;
- September 29, 1915 Gencorp incorporated as General Rubber Mfg. on this day.
- September 30, 1802 Antoine J. Balard, who was born on this date, discovered bromine in seawater in 1826, hypochlorous acid, and chlorine monoxide.

For more historical facts on chemistry, visit Dr. May's website at <http://faculty.cua.edu/may/>.

An informal association, Society for the Propagation of the Music of the Chemist-Composers, has been formed to publicize the music of chemist-composers. For information, see <http://faculty.cua.edu/may/SPMCC.htm>.

Position: Consultant/Project Manager

Independent consulting services required to coordinate STEM (science, technology, engineering, and math) grant for Harford County Public Schools. Estimated project timeline: October 1, 2009 to December 31, 2010.

Project management services to include:

- Development and implementation of strategic plan
- Steering Committee oversight
- Act as liaison between HCPS and government /corporate partners
- Represents STEM at local/regional events

Please send proposals to:

Andrew Renzulli
Supervisor of Science
Harford County Public Schools
102 S. Hickory Avenue
Bel Air, MD 21014

Proposals must be received by 4:00pm September 10, 2009.

Job Hunting?

We don't always have job posts in the Chesapeake Chemist. But if you have a position available locally, you are welcome to send them to us for posting in the Chesapeake Chemist. If you are job hunting, remember to put your membership to work by using the ACS job bank: (ACS Careers: www.acs.org/careers).

ACS offers special benefits for unemployed members

During these tough economic times it's more important than ever to belong to the American Chemical Society. Unemployed members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an unemployed member dues waiver, allowing them to renew their memberships and keep their member benefits at no cost. Contact ACS at service@acs.org, 800-333-9511 or 614-447-3671 for complete details.

Other valuable benefits that help ACS member get back in the workforce include:

- Free registration at ACS National Meetings and registration fees at Regional Meetings of just \$25. Meetings offer ACS Career Fairs with on-site interviews.
- Special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and the ACS Leadership Development System.
- Membership in the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers
- Free Guidance from ACS Career Consultants - ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest.
- Free access to InterviewStream, an online tool that will sharpen your interview skills
- Members-only access to the ACS Salary comparator.
- And more!

Contact ACS customer service today at service@acs.org, 800-333-9511 or 614-447-3671 today and let us know how we can help.



Johns Hopkins University Chemistry Department
The Ephraim and Wilma Shaw Roseman Colloquium Series

Fall 2009- Tuesdays, 4:15 pm
Remsen Hall 233

Sept 29
Prof Howard Fairbrother

"Catalysis, Chirality and Rotation Studied at the Single-Molecule Limit"
Charles H. Sykes - Tufts University

Oct 6
Prof David Yarkony

"The Far-From-Equilibrium Chemistry of Driven Colloidal Suspensions"
Rigoberto Hernandez - Georgia Institute of Technology

Oct 13
Prof John Toscano

"Structural Dynamics from NMR Spectroscopy of Weakly Aligned Proteins"
Joel Tolman - Johns Hopkins University

Oct 20
Prof John Toscano

*"Synthesis, Photochemistry, Electrochemistry, and Computation:
First Forays Toward Photochromic Photooxidants"*
Jason Gillmore - Hope College

Oct 27
Prof Gerald Meyer

*"Photoacoustic Calorimetry in Chemistry and Biology: Listening to What
Molecules Have to Say"*
Randy W. Larsen - University of South Florida

Nov 3
Prof Kit Bowen

*"Scanning Magnetic Imaging and Magnetic Resonance Imaging with
Atomic Magnetometers"*
Shoujun Xu - University of Houston

Nov 10
Prof J.D. Tovar

"Exploring β -Sheet Structure and Interactions with Chemical Model Systems"
James S. Nowick - University of California, Irvine

Nov 17
Prof Justine Roth

"Molecular Determinants Governing Oxylipin Biosynthesis in Fatty Acid Oxygenases"
Michael G. Malkowski - Hauptman-Woodard Medical Research Institute

For more information contact Rosalie Elder, 410-516-7432

<http://chemistry.jhu.edu/colloquia.html>

The schedule can be downloaded in pdf or html format

Call for Volunteers for Committee Positions

Interested in how your dues get used and want to work on interesting member programs/projects? If you want to get involved with the Maryland Section Executive Committee and/or with section activities, we want to hear from YOU! The Maryland ACS Executive Committee meets 4 times during the year to discuss and plan activities. Please feel free to contact the chair, vice-chair, or chair-elect via e-mail to get more information on various areas/activities that you are interested in or that we would like to start or expand in the future. The amount of time to commit would be up to you but might be around 2 hours per month, depending on the activity. We are always looking for individuals with budget/financial, editing, and planning skills.

Our Section is always looking for volunteers for our various committees. We are currently looking to fill positions for:

- Archivist
- Young Chemist Chair
- Women's Chemist Chair
- Webmaster

Please contact **Walter Roy** (Walter_Roy@mccormick.com, 410-771-7886) or **Alvin Kennedy** (alvin.kennedy@gmail.com, 443-885-3794)

REMINDER: Receiving the Chesapeake Chemist

Hopefully, if you are reading the Chesapeake Chemist this month, you are receiving it via e-mail from us. We went to electronic only mailings to our MD ACS membership in October 2006. Please remember that we are dependant on the National ACS records for your correct, current e-mail.

Changing your e-mail address? Moving out of the MD ACS area? E-mail changes can be updated either by:

- E-mailing us at mdchem@mdchem.org - give us your member #, full name, and e-mail changes and we can ensure that your records are updated with National ACS.
- **Contacting the National ACS membership division: 800-333-9511 (US only)** or service@acs.org

To ensure that you receive the Chesapeake Chemist, please add the MD ACS e-mail (mdchem@mdchem.org) to your accepted e-mail address list IF you have a spam filter.

If you are a member who currently doesn't receive the Maryland ACS Chesapeake Chemist but download it from our website, it is possible that National ACS does not have your e-mail address on file. If you want to receive the Chesapeake Chemist via e-mail, please e-mail us at mdchem@mdchem.org - give us your member #, full name, and e-mail address and we can ensure that your records are updated with National ACS.

The current edition and previous editions of the Chesapeake Chemist can ALWAYS be obtained via our website: <http://mdchem.org> - please see the Newsletter Archive link on the right-hand side of the website.

Get Involved, Stay Involved

As you know, the American Chemical Society offers many ways for its members and non-members to get involved at the local, regional and national levels. There are opportunities for everyone, whether you are a student, or just starting your career, or a seasoned professional. Are you interested in getting involved, but don't know where to start? Are you already involved with one or more ACS activities but need help finding resources? Please visit (<http://www.acs.org/getinvolved>) to find a streamlined list of links of helpful procedures and resources specifically geared towards your area of interest.

Alternately, you can contact the Maryland ACS Section directly... Like working with students? Have a talent for encouraging students in science? Have ideas for outreach events? Sign up for our volunteer news. Contact us at mdchem@mdchem.org.



micron inc
ANALYTICAL SERVICES

MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

OM / SEM / EDXA / TEM / SAED, EPA / WDXA
XRF / ESCA / AUGER / XRD
DSC / TGA / MFTIR

3815 LANCASTER PIKE, WILMINGTON, DE 19805
Phone: 302-998-1184, Fax: 302-998-1836

E-mail: (micronanalytical@compuserve.com)
Website: (<http://micronanalytical.com/>)

The Chesapeake Chemist is e-published monthly September through June by the Maryland Section of the American Chemical Society. Send submissions to the editor in electronic format. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of the authors. The editor is not responsible for all unsigned material.