

# Chesapeake Chemist

*Maryland Section  
American Chemical  
Society*



~ Mr. Xavier Bredzinski ~

Sales and Service Manager, Alpha  
Mos America, Inc. (<http://www.alpha-mos.com>)

“Use of the Electronic Nose and Tongue in the Food and Pharmaceutical Industries”

Wednesday, February 4<sup>th</sup>, 2009 – 6pm – UMBC – University Center – 2<sup>nd</sup> floor lobby

## Message from the Chair

January 5, 2009

At a membership exceeding 160,000, the American Chemical Society is the only congressionally chartered independent membership organization which represents professionals at all degree levels and in all fields of chemistry, engineering and chemical related sciences. Founded in 1876, ACS is the world's largest scientific society, and is made up of 190 local sections. The Maryland Section now accounts for ~ 2,000 members. In 1911, a group headed by Ira Remsen, President of Johns Hopkins, founded the Baltimore branch of the Washington Section, which went on formally to be the Maryland section in 1914. The first meeting of the new section was held on October 10, 1914, at Hopkins Hall.

From its inception, the ACS was committed to sharing its professional work with a public audience. ACS began publishing its flagship journal, the *Journal of the American Chemical Society* (JACS), in April, 1879. Abstracts, which had appeared in JACS since 1897, were given their own publication, *Chemical Abstracts* in January 1907.

The ACS is dedicated to the service of our members and the promotion of chemistry, and chemical related fields. During the 2009 year, your Maryland (MD) Section Executive Committee will be focusing on programs to improve our services for our local members; as well as programs for promoting local academic, government, and private contributions from our members. In addition, we will be seeking active participation and contributions from local businesses and industries that benefit from our membership.

The MD Section Executive Committee invites each of you to bring your recommendations and concerns forward so that you can more fully benefit from your membership. Also, you are invited to attend any Executive Committee meeting. This provides you with an opportunity to address your needs. Remember, our principle duty is to represent you.

Wishing you a very happy and prosperous 2009, on behalf of the Committee,  
Walter Roy

## February Meeting

Wednesday, February 4<sup>th</sup>, 2009 – 6pm – University of Maryland – Baltimore County (UMBC), Catonsville, MD  
University Center Building – 2<sup>nd</sup> floor lobby (outside room UC201)

6-6:30pm	<b>Registration/Networking - University Center Building - 2<sup>nd</sup> floor lobby</b> (outside room UC201)
6:30-7:15pm	Dinner – pizza & veggies
7:15-8:15pm	<b>Presentation in Meyerhoff Chemistry Bldg (Bldg 25) – room 120</b>  'Use of the Electronic Nose and Tongue in the Food and Pharmaceutical Industries'  Mr. Xavier Bredzinski, Sales and Service Manager, Alpha Mos America, Inc. ( <a href="http://www.alpha-mos.com">http://www.alpha-mos.com</a> )  ~ Question and Answer (10 minutes) ~

**Price:** Cost for the dinner is \$10 – members, spouses, retired chemists, & guests; and \$5 - students  
**Contact:** For questions, contact Shirish Shah at 410-323-0803 (H) or by email at [dr.shah@juno.com](mailto:dr.shah@juno.com)  
**Where:** University of Maryland – Baltimore County (UMBC), Catonsville, MD

~ 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](mailto:walter_roy@mccormick.com)  
*Vice-chair (chair 2010)* - Alvin Kennedy, Morgan State University, (443) 885-3115; [alvin.kennedy@morgan.edu](mailto:alvin.kennedy@morgan.edu)  
*Chair-elect (chair 2011)* - Mike Zapf, McCormick & Company, Inc, (410) 771-7471 ; [Mike\\_Zapf@mccormick.com](mailto:Mike_Zapf@mccormick.com)  
*Secretary* - Sara Narayan, Stevenson University - (443) 334-2326; [snarayan@stevenson.edu](mailto: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](mailto:lladon@towson.edu)

### Councilors:

Merle I. Eiss  
McCormick & Co, Inc  
[meiss32@aol.com](mailto:meiss32@aol.com)

Stephanie J. Watson  
NIST  
[stephanie.watson@nist.gov](mailto:stephanie.watson@nist.gov)

David Roswell  
Loyola College  
[droswell@lovol.edu](mailto:droswell@lovol.edu)

Charles Rowell  
retired  
[cfrowell35@verizon.net](mailto: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](mailto:gfarrant@yahoo.com)  
*MD ACS Student Grants - Travel & Student Affiliate Awards (February/March)* - Paul Smith, [pjsmith@umbc.com](mailto:pjsmith@umbc.com)  
or Louise Hellwig, [Louise.Hellwig@morgan.edu](mailto:Louise.Hellwig@morgan.edu)  
*Remsen Award (May/June)* - Lev Ryzhkov; [lryzhkov@towson.edu](mailto:lryzhkov@towson.edu)  
*Braude Award (October)* - Charles Rowell  
*Maryland Chemist Award (December)* - Angela Sherman - (410) 532-5713; [ASherman@ndm.edu](mailto:ASherman@ndm.edu)  
*Maryland Service Award* - Shree Iyengar - (410) 777-2266; [ssiyengar@aacc.edu](mailto: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](mailto:Lance.Baird@jhuapl.edu))  
*Environmental Issues* - Shirish Shah - (410) 704-2720  
[sshah@towson.edu](mailto:sshah@towson.edu) & Lance Baird  
*Finance Committee* - Jan Kolakowski - (410) 436-2755  
[jan.kolakowski@us.army.mil](mailto:jan.kolakowski@us.army.mil)  
*Government Relations* - Shirish Shah & Robert von Tersch - [robert.l.vontersch@us.army.mil](mailto: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](mailto:aamah@coppin.edu)  
*Public Relations* - Shirish Shah & Walter Roy,  
[Walter\\_Roy@mccormick.com](mailto: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](mailto:aredmiller@cs.com)

### Educational Programs:

*Chemistry Olympiad/Chem-a-Thon* - Shirish Shah & Mike Zapf,  
[Mike\\_Zapf@mccormick.com](mailto: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](mailto: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](mailto:mdchem@mdchem.org))

### Chesapeake Chemist Editor:

([mdchem@mdchem.org](mailto: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](mailto:mdchem@mdchem.org)).**

## Directions to UMBC:

**From the north**, take Interstate 95 to Route 166 (Exit 47B, Catonsville) or take Interstate 83 to the Baltimore Beltway (I-695, west) and then take Exit 12C (Wilkins Avenue, west); follow the signs to UMBC.

**From the south**, take Interstate 95 to Route 166 (Exit 47B, Catonsville); follow signs to UMBC.

Visitor parking is available at metered garages located at Administration Drive, The Commons Drive and Walker Avenue. Meters are enforced Monday through Friday for hours posted. Except for meters, all other campus roadways and lots require a permit. **By downloading the map at (<http://www.umbc.edu/aboutumbc/campusmap/map07.pdf>), you can see that the University Center Building is Bldg 42 (networking & food location) and the Meyerhoff Chemistry Bldg is Bldg 25 (presentation). The best parking to park in is lot 16. This is a gated lot, but you can park there for 50 cents (2 quarters) after 3:30pm, and it is adjacent to the University Center Building. At 6:00pm, there will be plenty of spots.**

~ A printable campus map is available on-line at: <http://www.umbc.edu/aboutumbc/campusmap/map07.pdf> ~

**Abstract:** 'Use of the Electronic Nose and Tongue in the Food and Pharmaceutical Industries'

Sensor array systems such as Electronic noses and Electronic tongues have generated a great level of interest in the analytical laboratories of the world's leading food, flavors, and fragrance companies, as well as in the environment as a fast, simple, and reliable method of aroma/VOC analysis. Over the past 8 years, the sensor array systems have demonstrated their ability to produce information and the ability to transfer expert knowledge from the R&D and trained sensory panels into a production environment for quality assurance and control. Flavors qualities and intensities and taste quality control attracts an increasing level of attention from food and beverages companies.

Recently, those systems have been also massively adopted by the Pharmaceutical Industry particularly for oral formulations development. Those systems reduce the need for sensory evaluation and provide added safety when performing taste assessment. They are simple to use and extremely fast.

**About the Speaker:** Xavier Bredzinski, MSc, MSc, is Regional Sales and Service Manager of Alpha MOS America (which is a leading company in Smart Sensing Systems Headquartered in Toulouse, France).

He began working for Alpha MOS as Laboratory Manager as a specialist in the electronic digitalization of human senses and was in charge of R&D projects. Then, he became a Technical Support Engineer, providing customers with technical and application support including training sessions.

Previously, he worked for the Fisheries Research Service Marine Laboratory (FRS-ML) in the Environmental Impact division, Aberdeen, Scotland as Environmental Chemist.

Xavier Bredzinski earned a European MSc in Environmental Analytical Chemistry at the University of Aberdeen, Scotland in 2001 in addition to a National MSc in Physical chemistry of surfaces at the Technological University of Compiègne, Research Center, France in 2000.

During his MScs he worked as a research fellow at TotalFinaElf in the Chemistry and Physical chemistry division, Research Group of Lacq, France and developed a prototype for Preparative Size Exclusion Chromatography applied to polymers.

He worked also at the French Institute of Petroleum in the applied Chemistry and Physical Chemistry division at Rueil-Malmaison, France and had the opportunity to publish a paper on the kinetics of methane hydrates formation in SPE International

## Nominations for the 2009 Maryland Chemist Award

The Maryland Chemist Award Committee is accepting nominations for the 2009 Maryland Chemist Award. Supportive documentation should include copies of the resume of the nominee and his/her list of publications. A short statement describing the outstanding contributions of the nominee to scientific research, education, industry, technology, etc., will be helpful and appreciated. Please send nominations to Dr. Angela Sherman. Nominations are PREFERRED to be sent in to the committee via e-mail: [ASherman@ndm.edu](mailto:ASherman@ndm.edu). If you can not send your nomination via e-mail, please contact Dr. Sherman via e-mail or phone (410) 532-5713 to arrange for alternate delivery method. The deadline for submission of nominations is April 15, 2009.

## Women Chemists Committee Event - SAVE THE DATE!!

### What: **Maryland ACS Women Chemists Committee Luncheon**

**When:** Friday, February 20<sup>th</sup>, 2009 - 11:30am-1:30pm

**Where:** Sabatino's Restaurant (<http://www.sabatinos.com>), 901 Fawn Street, Baltimore, MD 21202

There will be a seated and served menu (includes bread, salad, entree, desert, tea/coffee/soda & the entree choices are amongst 11 pasta/pasta+meat dishes). Alcohol, fancy coffee drinks and any other drinks not included above will be available on a cash basis.

**Cost:** \$10 students, \$15 members and guests



**Speaker:** Dr. Anne-Francoise Aubry, Associate Director, Analytical R&D, Pharmaceutical Research Institute, Bristol-Myers Squibb Co. (<http://www.bms.com>)

**Presentation:** 'Career Changes and Handling Career Transitions in the Pharmaceutical Industry'

Please RSVP to the Maryland ACS event Point-of-Contact (POC) with how many people are coming by Wednesday, February 18<sup>th</sup>.

Maryland ACS POC: Sara Narayan (Stevenson University)  
e-mail: [snarayan@stevenson.edu](mailto:snarayan@stevenson.edu) or phone: 443-334-2326

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### Networking - The Next Stage

Networking used to be so easy. Regularly go to meetings, meet new people/make new contacts, exchange information, etc. With people's lives getting busier & busier, it sometimes becomes difficult to make more than 1 or 2 meetings a year let alone keep up with all the changes in people's lives.

How can you network with colleagues now? There are many ways if you are on-line. Social networking has been around for years but if you are a professional, you may not be interested in having colleagues read your MySpace or Facebook page.

The National American Chemical Society has started a self-contained professional networking site, the [ACS Network](#). ACS recently sent out information about the Network:

#### Join the [ACS Network!](#)

Be included in the online network of the world's largest scientific society for chemical professionals. It's safe. It's searchable. It's FREE. And it's a great way to stay connected with the best and brightest.

#### Why join?

Take advantage of this NEW benefit! The ACS Network is an online networking tool that facilitates more effective collaboration among ACS members and other scientific professionals. You can:

- Build your own personal network of ACS members.
- Share research and publications information.
- Find friends and colleagues faster and easier than ever before!

Other sites exist to help you keep in touch with colleagues:

LinkedIn (<http://www.linkedin.com>) - LinkedIn allows you to create a profile to increase your visibility and connect to other colleagues in your industry. If you are looking for a job, it allows you to search for jobs and post information, so employers and recruiters can find you. There is an American Chemical Society group on LinkedIn that you can join where occasionally issues and job announcements are sent out.

Jobster (<http://jobster.com>) - Allows a user to create a profile that includes a YouTube-hosted video information about your background, tags, and a personalized url you can use to share your digital resume with employers.

MyWorkster (<http://myworkster.com>) - Professionally network with students, graduates, and employers. Plus resume posting and job search tools.

## Women Chemists Committee Event - SAVE THE DATE!!

### **What: Maryland ACS Women Chemists Committee Dinner Meeting & Garden Soil Evaluation**

**When:** Thursday, March 12<sup>th</sup>, 2009 - 6pm

**Where:** Location for Dinner meeting To-Be-Announced

**Cost:** \$10 students, \$25 members and guests

**Speaker:** Ms. Anna Marie Young - Retired chemist (Unilever) & Master Gardener

**Presentation:** 'Preparing for Retirement (One Chemists' Perspective) and Life after the Bench: Enjoying Chemistry through Gardening'

**Bio/Abstract:** Ms. Anna Marie Young graduated with a BS in chemistry from DePaul University in 1962 and an MS in chemistry from Northeastern Illinois University in 1999. Her career spanned many years (1962-2007), working at Baxter, M&M Mars, Smith Laboratories, and Helene Curtis/Unilever, and with 11 years as a stay-at-home Mom. The last 16-years in chemistry at Helene Curtis/Unilever were spent in an analytical laboratory where she specialized in liquid, size exclusion, and ion chromatography. She applied these techniques to the quantification of ingredients in competitors' products, and to help solve pilot plant and production problems. The products analyzed were personal care products such as shampoos, conditioners, antiperspirants and hair fixatives.

Many people dream about retirement but its approach and the preparations that need to be made are substantial. After reaching 65 years and 6 months of age, she was eligible for full Social Security benefits and along with other considerations was thinking of retiring at the end of 2007. These plans were advanced when Unilever announced the closing of the Rolling Meadows product development center in December 2006 which was scheduled to happen in mid-year 2007. So she was actually was able to retire in May of 2007. Although happy to retire, the paperwork and procedures were daunting.

Retirement is freedom to plan your day, your week and beyond. Often people are so busy up to retirement that they have not made more plans until after they retire. While basic plans might include working your body (exercise) and stimulating your mind (reading that book or taking classes in subjects you found interesting but never had time for), finding concrete ways to have consistent activities is important. One great way to do this, if you have a green thumb and general interest, is through a Master Gardening program. Ms. Young finished the Illinois Master Gardening Classes in spring of 2008 and completed the required volunteer work at the various Extension participation sites and will be certified in May 2009.

Ms. Young will speak about Chemistry, Retirement, and Life after Employment.

**Get Ready for Spring! Test YOUR Garden Soil after the presentation!** Bring a ¼ cup of your garden soil (recommend that you scrape surface soil away and take soil from where your plant roots would be) in a Ziploc bag and after the talk, you will have an opportunity to test it for the basics: pH and Nitrogen-Phosphorus-Potassium (N-P-K)

Please RSVP to the Maryland ACS event Point-of-Contact (POC) with how many people are coming & if you plan on participating in the soil testing by Tuesday, March 10<sup>th</sup>.

Maryland ACS POC: Sandra Young (Army Research Laboratory)  
e-mail: [Sandra.young@us.army.mil](mailto:Sandra.young@us.army.mil) or phone: 410-306-0679

### **Looking for Science Fair Judging Volunteers**

Yes, it's already starting to be that season where the schools look for science fair volunteers.

**What:** Annual Science Fair

**Where:** Patterson Mill Middle School, 85 Patterson Mill Road, Bel Air, MD 21015 (Harford County)

**When:** Wednesday, February 18<sup>th</sup> - 3pm - 5 or 6 (depending on how many judges they have)

**School Point-of-Contact:** Tracie Moots, Science Department Chair, [Tracie.Moots@hcps.org](mailto:Tracie.Moots@hcps.org)



## Spring 2009 - Important Dates



- February 4, 2009 Section Meeting – UMBC – Speaker: Mr. Xavier Bredzinski, Sales and Service Manager, Alpha Mos America, Inc. (<http://www.alpha-mos.com>) – Presentation: ‘Use of the Electronic Nose and Tongue in the Food and Pharmaceutical Industries’
- February 20, 2009 (Friday) Women Chemist Committee Luncheon – Location To-Be-Announced – Speaker: Anne-Francoise Aubry an Associate Director, Analytical R&D, Pharmaceutical Research Institute, Bristol-Myers Squibb Co. (<http://www.bms.com>) – Presentation: ‘Career Changes and Handling Career Transitions in the Pharmaceutical Industry’
- March 12, 2009 (Thursday) Women Chemist Committee – Location To-Be-Announced – Speaker: Ms. Anna Marie Young, retired chemist (Unilever) & Master Gardener – Presentation: ‘Preparing for Retirement (One Chemists’ Perspective) and Life after the Bench: Enjoying Chemistry through Gardening’
- March 22-26, 2009 237<sup>th</sup> National ACS Meeting & Exposition, Salt Lake City, UT (<http://chemistry.org/meetings>)
- April 4, 2009 (Saturday) MD ACS Earth Day Community Event – Project Clean Stream – Herring Run Park (Argonne Drive & Harford Road), Baltimore, MD
- April 2009 Student Awards Meeting – Date/Location to be determined
- April 18, 2009 (Saturday) Spring Clean-Up Day in Baltimore City – when is your city/town’s spring clean-up/Earth Day event??
- April 22, 2009 Earth Day
- May 22, 2009 (Friday) New 50-year member luncheon celebration - Belmont Conference Center- directions at: (<http://mdchem.org/meetings/belmont.html>)



## Summer 2009 – Important Dates



- June 2009 Remsen Award Meeting – Date to be determined Awardee: TBD - Johns Hopkins University, Baltimore, MD – directions at: (<http://mdchem.org/meetings/JHU.html>)
- June 2009 Student Affiliate National Meeting Travel Grant application deadline for August meeting.
- July 2009 MD ACS Annual Picnic, McKeldin Area, Patapsco State Park – Directions at: (<http://mdchem.org/meetings/patapsco-mckeldin.html>).
- August 16-20, 2009 238<sup>th</sup> National ACS Meeting & Exposition, Washington DC (<http://chemistry.org/meetings>)



## Fall 2008 – Important Dates



- September 2009 Section Meeting – Details To-Be-Announced
- October 2009 Section Meeting & Braude Award Dinner – Details To-Be-Announced
- 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

### Travel discounts for ACS Meetings

If you’re traveling to one of the ACS [National](#) or [Regional](#) Meetings in 2009, you can take advantage of discounted airfare and auto rental rates that National ACS has negotiated; just cite the discount codes below when making your reservations.

**Continental Airlines**, (800) 468-7022  
 Spring National Meeting - ZENXB0WG9K  
 Fall National Meeting - ZENYB0XTJ6  
 Regional Meetings - ZF5FB0Z9Y4 (all)

**American Airlines**, (800) 433-1790  
 Spring National Meeting - A213AN  
 Fall National Meeting - A1489AB  
 Regional Meetings - A6659AH (Great Lakes), A269AI (Northwest), A71H9AA (Northeast/Midwest/Southeastern), and A33N9AB (Southwest)

**Avis Auto Rentals**, (800) 331-1600  
 All meetings -B120799

**Hertz Auto Rentals**, (800) 654-2240  
 All meetings - CV# 02UZ0008



## February Historical Events In Chemistry

By: Leopold May

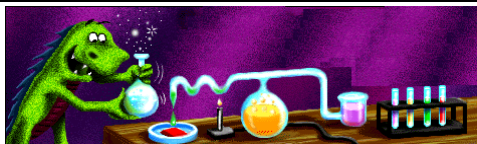
- February 1, 1905 Fifty years ago, Emilio Segré shared the Nobel Prize in Physics (1959) with Owen Chamberlain for their discovery of the antiproton. He codiscovered technetium with C. Perrier in 1937, and astatine with D. R. Corson and R. MacKenzie in 1940, and with others demonstrated the antiproton in 1955. He was born on this date.
- February 2, 1802 Jean Baptiste Boussingault who demonstrated that plants absorb nitrogen from soil in form of nitrates and not from air as previously believed, was born on this day.
- February 6, 1892 Seventy-five years ago, William P. Murphy shared the [Nobel Prize in Physiology or Medicine](#) (1934) with George R. Minot & George H. Whipple for their discoveries concerning liver therapy in cases of anaemia. He was born on this date.
- February 7, 1834 One hundred and seventy-five years ago, Dimitri I. Mendeleev was born. He discovered the Periodic Law (Table) at same time as Lothar Meyer, who published later.
- February 8, 1795 One hundred and seventy-five years ago, Friedlieb F. Runge discovered carbolic acid (phenol) and aniline in coal tar. He also investigated dry distillation and the composition of matter and was born on this date.
- February 12, 1826 Moritz Traube, who was born on this date, did research in semipermeable membranes, sugars, respiration, fermentation, oxidation, protoplasm, and muscle.
- February 14, 1917 Herbert A. Hauptman, who developed methods for the determination of crystal structures and received the Nobel Prize in 1985 with Jerome Karle, for their outstanding achievements in the development of direct methods for the determination of crystal structures, was born on this day.
- February 16, 1955 F. P. Bundy, H. T. Hall, H. M. Strong and R. H. O. Wentoff announced synthesis of diamonds at General Electric Research Laboratories on this date.
- February 19, 1859 One hundred and fifty years ago, Svante A. Arrhenius was born. He devised a theory of electrolytic dissociation and was a researcher in viscosity and reaction rates. In 1903, he was awarded the Nobel Prize in Chemistry in recognition of the extraordinary services he has rendered to the advancement of chemistry by his electrolytic theory of dissociation
- February 23, 1884 One hundred and twenty-five years ago Casimir Funk was born. He isolated nicotinic acid from rice polishing and used it against pellagra and pursued the idea that diseases such as beriberi, scurvy, rickets and pellagra were caused by lack of vital substances in the diet
- February 25, 1880 Arthur B. Lamb, who was the editor of the Journal of the American Chemical Society (1917-1949) was born on this day.
- February 28, 1901 Linus C. Pauling, who was born on this date, received the Nobel Prize for Chemistry in 1954 for his research into the nature of the chemical bond and its application to the elucidation of the structure of complex substances and the Nobel Prize Peace in 1962,. He did research on the structure of molecules such as proteins, valency, and resonance.

For more historical facts on chemistry, visit Dr. May's website at (<http://faculty.cua.edu/may/>)  
or the 'This Week in Chemical History' at the ACS website':

([http://portal.acs.org/portal/acs/corg/content?\\_nfpb=true&\\_pageLabel=PP\\_TRANSITIONMAIN&node\\_id=124&use\\_sec=false&sec\\_url\\_var=region1](http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_TRANSITIONMAIN&node_id=124&use_sec=false&sec_url_var=region1))

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>.





## Outreach

### **Chemists Celebrate Earth Day 2009 – Theme: Air – The Sky's the Limit**

National ACS plans to publish an Earth Day handout again this year. When it is available we will have publish the link in the Chesapeake Chemist & on our website.

<b>Date:</b>	<b>Location:</b>
Friday, April 3 <sup>rd</sup> , 2009 – 2pm	Elkridge Library, Elkridge MD (Howard County)
Monday, April 20 <sup>th</sup> , 2009 – 5pm	Waverly Library, Baltimore, MD (Baltimore City)
Wednesday, April 22 <sup>nd</sup> , 2009 – 3:30pm	Chesapeake City Library, Chesapeake City, MD (Cecil County)
Thursday, April 23 <sup>rd</sup> , 2009 – 10am	East Columbia Library, Columbia, MD (Howard County)
Thursday, April 23 <sup>rd</sup> , 2009 – 2pm	Miller Library, Ellicott City, MD (Howard County)
Wednesday, May 6 <sup>th</sup> , 2009 – 3:30pm	Rising Sun Library, Rising Sun, MD (Cecil County)
Friday, May 15 <sup>th</sup> , 2009 – 10am	Savage Library, Laurel, MD (Howard County)
Friday, May 15 <sup>th</sup> , 2009 – 2pm	Glenwood Library, Cooksville, MD (Howard County)

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](mailto:mdchem@mdchem.org)).

#### Interested in holding your own Chemistry-in-the-Library Program?

We are looking at putting some supply kits together and having a short training event with luncheon for folks who plan to hold their own Maryland ACS sponsored science events at local libraries in the spring. Please contact us at [mdchem@mdchem.org](mailto:mdchem@mdchem.org) for more information.

### **Earth Day Community Event**

The Maryland ACS will once again be participating in the Herring Run Watershed – Project Clean Stream Clean-Up Event on **Saturday, April 4<sup>th</sup>, 2009**. Gloves, bags, and rakes are provided to assist in the clean-up. There is also an area available for breaks and snacks/drinks are provided. Please mark your calendars and plan to join us for this important event!! For questions about this event, please contact Maryland ACS POCs: Paul Smith, UMBC, ([pjsmith@umbc.edu](mailto:pjsmith@umbc.edu)) or Lance Baird, JHU-APL, ([Lance.Baird@jhupl.edu](mailto:Lance.Baird@jhupl.edu)).

### **Earth Day at the Maryland Science Center**

Currently, we are planning another Earth Day event at the Maryland Science Center. We are currently working on arranging the date & time. The MD ACS will have tables set up and be doing hands-on experiments with young students.

If you have any questions or want to assist with an event, please contact Maryland ACS POCs: Paul Smith, UMBC, ([pjsmith@umbc.edu](mailto:pjsmith@umbc.edu)) or Lance Baird, JHU-APL, ([Lance.Baird@jhupl.edu](mailto:Lance.Baird@jhupl.edu)).

### **2009 Chemistry Olympiad – April 2009**

The 2009 Chemistry Olympiad Program is underway. If you have contact with a high school teacher whom you think would participate in the program, please have them contact Mike Zapf for registration for the competitive exam. The deadline for receipt of their student nominations to the Maryland Section is Friday, April 10th. Only two students per school are permitted and our Section may test only 13 students.

Maryland ACS Point-of-Contact: [mike\\_zapf@mccormick.com](mailto:mike_zapf@mccormick.com), 410-771-7741

## Student Affiliate Corner

Over the last month and a half, student affiliates were largely on holiday break and gearing up for Spring Semester.

### UMBC – Dr. Tara Carpenter

The UMBC Chapter held a pizza party in December to celebrate our successful events of the semester. There were about 60 members in attendance!

### Reminder: Applications are Being Accepted for the 2009 Undergraduate Student Travel Awards

Students can apply to receive up to \$500 for travel and expenses to attend a National ACS Meeting or up to \$300 to attend a Regional ACS Meeting. Open to undergraduate student affiliates of the ACS who are enrolled full time in a college or university in the Maryland Section.

The application should include:

- The meeting you plan to attend along with location, dates
- An estimated budget (cost for travel, registration, lodging, and meals)
- A 250 word essay describing your motivation for attending the meeting (if you plan to present, include a brief description of the work to be presented)
- A letter of support from a faculty member in your department

Review of applications will begin January 15<sup>th</sup> but will continue through the year until all funds are utilized. Applications should be mailed to: Dr. Paul Smith, UMBC, Department of Chemistry and Biochemistry, 1000 Hilltop Circle, Baltimore, MD, 21250 or sent via e-mail: [pjsmith@umbc.edu](mailto:pjsmith@umbc.edu).

### National Meeting Travel Grants Available for Student Affiliates

Active Student Affiliates chapters with students presenting posters at the Spring 2009 national meeting can apply for a \$300 travel grant. Applications are due by January 12, 2009. Information is available on the [National ACS website](#).

### Student Awards - April 2009

For many years the section has hosted a student awards meeting where hard-working students who are excelling in their chemistry studies are recognized. The section will be soliciting one nominee from each college/university within the Maryland Section boundaries to honor at the Student Awards Meeting in April 2009. If you are curious as to the Maryland Section boundaries, which do NOT encompass the entire state of Maryland, please refer to the map at (<http://www.mdchem.org/section.html>). The Maryland ACS Points-of-Contact for this event are Dr. Crystal Yau ([cyau@ccbcmd.edu](mailto:cyau@ccbcmd.edu)) and Dr. George Farrant ([gfarrant@yahoo.com](mailto:gfarrant@yahoo.com)). Nominations (full student name, school attending, and digital photo) will be due to Drs. Yau and Farrant via e-mail by Friday, February 6, 2009.

### International research for undergraduates

ACS is accepting applications for the International Research Experience for Undergraduates exchange program. U.S. students can pursue summer research in France, Italy, Germany, and the United Kingdom. European students can conduct summer research at selected REU sites in the United States. The deadline to apply is January 31, 2009.

### Apply now for ACS Scholars support

The American Chemical Society Scholars Program is still accepting applications for the 2009-2010 academic year.

Complete information and the online application form can be found on the [ACS Scholars program web site](#). Interested applicants can also inquire by phone at (800) 227-5558, ext. 6250 (toll-free), or 1-202-872-6250, or by e-mail at [scholars@acs.org](mailto:scholars@acs.org).

## Job Opportunities:

ARL Position Descriptions - The Materials Division of the Army Research Laboratory (ARL) is looking to hire candidates for a number of positions:

1) **Polymer Matrix Composites:** Candidate should have experience in resin chemistry, chemical analysis, polymer analysis, composite fabrication, and mechanical evaluation of resins and composites. A candidate with a masters degree or higher and research experience in resins and composites is desired. A degree in science or engineering is required, with a preference for chemical engineering, materials science, and chemistry, although other related degrees would also be considered.

2) **Biofuels:** Candidate should have experience in preparing biofuels (biodiesel, ethanol, butanol) or other value added chemicals from renewable resources. In addition, the candidate should have extensive experience in chemical analysis and characterization. Biofuels testing experience is also desired. A B.S. or higher with industry experience in preparing and testing biofuels or a candidate with a masters degree or higher and research experience in biofuels preparation and testing is desired. A degree in science or engineering is required, with a preference for chemical engineering, chemistry, biology, plant sciences, and materials science, although other related degrees would also be considered.

Interested candidates should send their resume via email to Dr. John La Scala (john.lascala@us.army.mil). Position is located at Aberdeen Proving Ground, Maryland. **Only U.S. citizens will be considered.**

For further information regarding the U. S. Army Research Laboratory please refer to <http://www.arl.army.mil>

## 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](http://www.acs.org/careers)).

## 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
- Women's Chemist Chair
- Young Chemist Chair

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

## Webmaster Volunteer Needed

The Section is looking for a Webmaster for our website-[www.mdchem.org](http://www.mdchem.org). If you are knowledgeable with current webpage software and would like to volunteer please contact **Sandy Young** ([Sandra.Young@us.army.mil](mailto:Sandra.Young@us.army.mil), 410- 306-0679) or **Stephanie Watson** ([stephanie.watson@nist.gov](mailto:stephanie.watson@nist.gov), 301-975-6448).

## 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:

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- E-mailing us at [mdchem@mdchem.org](mailto: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](mailto:service@acs.org)**

To ensure that you receive the Chesapeake Chemist, please add the MD ACS e-mail ([mdchem@mdchem.org](mailto: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](mailto: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](mailto:mdchem@mdchem.org).



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