

# Chesapeake Chemist

*Maryland Section  
American Chemical  
Society*



Where can you get: lots of relaxation, socialization with scientific colleagues, good food, and scrabble & dominos? The mid-July Maryland Section of the American Chemical Society Picnic!

Sunday, July 13<sup>th</sup>, 2008 - 12:00pm - Patapsco State Park

## Message from the Chair

By: Lev Ryzhkov

Please join us for the July Section Picnic at Patapsco State Park.



### Maryland Section ACS - Annual PICNIC!



The Maryland Section, American Chemical Society, will again sponsor a family picnic. The Section will provide hotdogs, hamburgers, chicken, sodas, condiments, paper goods, cups, utensils, etc... The McKeldin Area has a ball diamond, basketball court, volleyball court, hiking trails, horseshoe pits, wading stream and more. **BRING YOUR SPORTS EQUIPMENT!!**

Once again this year, there will be a Scrabble tournament and a Domino contest. Please bring your sets and dictionaries.

**WHEN:** JULY 13, 2008

**WHERE:** PATAPSCO STATE PARK, PAVILION #305, McKeldin Area (Marriottsville Road)

**TIME:** Noon to 5.00P.M.

**DIRECTIONS:** Route I-70 to Marriottsville Road, 5 miles north on Marriottsville Road to park entrance on the right. Map available on our website: (<http://mdchem.org/meetings/patapsco-mckeldin.html>)

To make the picnic a special food fest, we are inviting participating **families to bring a food dish**. Please use the initials formula shown below:

**A-F**    **side dish**  
**M-R**    **snack**

**G-L**    **salad**  
**S-Z**    **dessert**

Fees: \$15.00 per family; \$7.50 per individual. Reservations: Please send checks, payable to Maryland Section, ACS, to:  
Alvin Bober  
9800 Middle Mill Drive  
Owings Mills, MD 21117                      (by July 1<sup>st</sup>)

Late reservations: Call 410-581-5321  
or e-mail [abober@verizon.net](mailto:abober@verizon.net)

Entrance to the Park is free for Seniors (62 & up) and for children under 16. There is a small fee for others.

## ACS Maryland Section - Officers and Committee Chairs

### Section Officers:

*Chair* - Lev Ryzhkov, Towson University - (410) 704-3831; [lryzhkov@towson.edu](mailto:lryzhkov@towson.edu)

*Vice-chair* - Walter Roy, McCormick & Company, Inc, (410) 771-7886; [walter\\_roy@mccormick.com](mailto:walter_roy@mccormick.com)

*Chair-elect - vacant*

*Secretary* - Sara Narayan - (443) 334-2326; [f-naraya@mail.vjc.edu](mailto:f-naraya@mail.vjc.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                      Stephanie J. Watson  
[meiss32@aol.com](mailto:meiss32@aol.com)              [stephanie.watson@nist.gov](mailto:stephanie.watson@nist.gov)

David Roswell                      Charles Rowell  
[droswell@loyola.edu](mailto:droswell@loyola.edu)              [cfrowell35@verizon.net](mailto:cfrowell35@verizon.net)

**Alternate Councilors:** Shekar Munavalli, Shirish Shah,  
Paul Smith, Joseph Topping

**Members at Large:** Karen Hatwell, Maurice Iwunze,  
Angela Wells Winstead, Takashi Tsukamoto

### Committee Chairs:

*Student Awards (April)* - George Farrant - (410) 455-4120; [gfarrant@yahoo.com](mailto:gfarrant@yahoo.com)

*MD ACS Student Grants (April)* - Susan Mercer - [sgill002@umaryland.edu](mailto:sgill002@umaryland.edu) or Paul Smith, [pjsmith@umbc.com](mailto:pjsmith@umbc.com)

*Remsen Award (May/June)* - Lev Ryzhkov

*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)

*Student Travel Awards* - Paul Smith, (410) 455-2519, [pjsmith@umbc.com](mailto:pjsmith@umbc.com) & Louis Hellwig

### Programs:

*Archives* - Ernie Silversmith - (443) 885-3214

*Career Planning* - Linh Cheong - (410) 762-1159

*Earth Day* - Paul Smith

*Environmental Issues* - Shirish Shah - (410) 704-2720  
[sshah@towson.edu](mailto:sshah@towson.edu) & Sandy Young

*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 & Alan Samuels -  
[alan.samuels@us.army.mil](mailto:alan.samuels@us.army.mil)

*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* - Susan Mercer,  
[sgill002@umaryland.edu](mailto:sgill002@umaryland.edu)

*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))



## Summer 2008 – Important Dates



- July 13, 2008 MD ACS Annual Picnic, McKeldin Area, Patapsco State Park – Directions at: (<http://mdchem.org/meetings/patapsco-mckeldin.html>). Scrabble and domino players are encouraged to attend
- August 17-21, 2008 236<sup>th</sup> National ACS Meeting & Exposition, Philadelphia, PA (<http://chemistry.org/meetings>)



## Fall 2008 – Important Dates



- September 2008 Section Meeting – Date/Location to be determined – speaker: Major David S. Johnston, Director, Laboratory Sciences, USACHPPM
- October 2008 Section Meeting – Date/Location to be determined – Braude Award Dinner
- November 2008 Section Meeting – Date/Location to be determined
- November 15, 2008 America Recycles Day (<http://nrc-recycle.org/americanrecycles.aspx>)
- December 2008 Section Meeting – Date/Location to be determined – Maryland Chemist of the Year Award Dinner

## May 50-Year Member Luncheon Recap

10 new 50-year members were inducted this spring in the Maryland ACS. The 2008 50-Year Members include:



- Mr. Orley R. Bourland
- Dr. Gwendolyn N. Chmurny
- Mr. Melvin F. Fine
- Mr. Frank J. Gomba
- Dr. Warren W. Hillstrom
- Dr. Yuan C. Lee
- Dr. Bibhuti R. Mazumder
- Ms Helen S. Naviasky
- Dr. Henry J. Wells

Shown here is Mr. Frank J. Gomba with Maryland Section Executive Committee Members Shirish Shah and Charles Rowell.

## MD ACS to host MARM 2011 or 2012

The MD ACS is looking for volunteers to help organize the 2011 or 2012 Mid-Atlantic Regional Meeting. The Maryland Section has an opportunity to execute the MARM in 2011 or 2012, and we need officers to co-chair the overall forum, the technical committee, publications, publicity, development, treasurer, exhibits, and local arrangements. We also need participation by any who wish to help without committing to a chair. Please contact Alan C. Samuels (phone: (410)-436-5874; e-mail: [alan.samuels@us.army.mil](mailto:alan.samuels@us.army.mil)) if you can help.



## July Historical Events In Chemistry

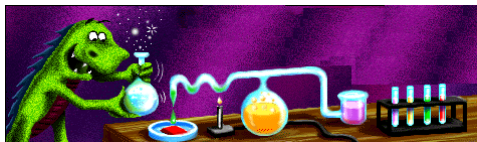
By: Leopold May

- July 2, 1862 William H. Bragg, researcher in x-rays & crystal structure; was born on this date. In 1915, he shared the Nobel Prize in Physics with his son, W. Lawrence Bragg for their services in the analysis of crystal structure by means of X-rays.
- July 4, 1888 Selman A. Waksman, who was born on this date, isolated streptomycin in 1943, and in 1952, he was awarded the Nobel Prize in Physiology or Medicine for his discovery of streptomycin, the first antibiotic effective against tuberculosis.
- July 6, 1810 James C. Booth devised methods for refining gold-silver bullion at U. S. Mint, Philadelphia. He was one of the founding members of ACS and served as President from 1883-1884 and was born on this date.
- July 7, 1914 Robert Goddard obtained patent for liquid fuel rocket, Patent no. 1,102,653 liquid-fuel gun rocket.
- July 11, 1811 William Robert Grove, who was born on this date, created the gas voltaic battery, the forerunner of modern fuel cells.
- July 12, 1635 Robert Hooke, known for his law of elasticity (Hooke's Law), was born on this date. He did research on the theory of gases and combustion, and is "the father of microscopy" the term "cell" to describe the basic unit of life. He assisted Robert Boyle and built the vacuum pumps used in Boyle's gas law experiments.
- July 13, 1527 John Dee, an English alchemist; was born on this date.
- July 15, 1915 Albert Ghiorso, a researcher in transuranic elements, was born on this date. He codiscovered americium (Am, 95), berkelium (Bk, 97), californium (Cf, 98), curium (Cm, 96), einsteinium (Es, 99), fermium (Fm, 100), hahnium (Ha, 105), lawrencium (Lr, 103), mendelevium (Md, 101), nobelium (No, 102), rutherfordium (Rf, 105), and seaborgium (Sg, 106).
- July 18, 1948 Hartmut Michel, who was born on this date, determined the 3- dimensional structure of photosynthetic proteins. In 1988, he shared the Nobel Prize in Chemistry with Johann Deisenhofer and Robert Hubert for the determination of the three-dimensional structure of a photosynthetic reaction centre.
- July 19, 1921 Rosalyn S. Yalow, who developed technique of radioimmunoassay, was born on this date. In 1977, she received the Nobel Prize in Physiology or Medicine for the development of radioimmunoassays of peptide hormones that she shared with Roger Guillemin and Andrew V. Schally for their discoveries concerning the peptide hormone production of the brain.
- July 23, 1717 Joseph M. F. Lassone discovered carbon dioxide in 1776 and was. born on this date.
- July 25, 1920 Rosalind Franklin was born on this date. She did research in x-ray crystallography of deoxyribonucleic acid (DNA) that led to the discovery of the double helical form of DNA.
- July 31, 1800 Friedrich Wöhler, who was born on this date, synthesized urea from ammonium cyanate challenging the vitalistic theory that organic compounds can be produced only by living organisms and isolated beryllium. He also isolated aluminum, was a researcher in isomerism, and discovered calcium carbide and the preparation of acetylene from it.

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

Outreach coordinators on vacation for the summer! ☺ But we are starting to plan for National Chemistry Week outreach for the late-September, October, and early-November timeframe. If you are interested, please e-mail Sandy at: [mdchem@mdchem.org](mailto:mdchem@mdchem.org)

### Student Affiliate Corner

#### **Reminder: Applications are Being Accepted for the 2008 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.com](mailto:pjsmith@umbc.com).

#### **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](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.



## Maryland ACS

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.

## Volunteer Here!

Like working with students? Have a talent for encouraging students in science? Have ideas for outreach events? Sign up for our volunteer news. Contact Sandy Young 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 Sandy Young at [mdchem@mdchem.org](mailto:mdchem@mdchem.org) for more information.



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