

Chesapeake Chemist

Maryland Section
American Chemical
Society



October Speaker:

~ **Dr. Bassam Z. Shkhashiri** ~

University of Wisconsin-Madison

Professor of Chemistry and the William T. Evjue Distinguished Chair for the Wisconsin Idea

<http://scifun.chem.wisc.edu>

**“Enlightenment and the Responsibilities of the Enlightened
in Communicating Chemistry”**

Wednesday, October 24th - Villa Julie College

Message from the Chair

By: Stephanie S Watson

Meetings: This month we have two special meetings. Just in time for National Chemistry week, the famous Dr. Bassam Shakhashiri from the University of Wisconsin (<http://scifun.chem.wisc.edu/>) is the awardee for the Braude Award to be held on October 24 at Villa Julie College. We are also holding a Tri-Section Symposium with the Washington, DC and Western Maryland Sections on the topic of Energy Alternatives at Hood College on October 13. I hope you can find time to join us this month!

Changes in the Section Bylaws: The revised Section Bylaws are found in this edition of the Chesapeake Chemist newsletter – pages 12-16. The major reason for the changes was to eliminate the requirement that the ballots be mailed to the members to allow for electronic voting. You will find that there is no comment about electronic voting because there is now no block in doing the voting by that mode. Some members prefer to receive mailings for the ballots and will continue to receive them, but the majority of the voting will switch over to an electronic mode in the near future. There was also the addition of the Braude Award to our current list of Section awards. Finally, there were changes to the terminology of the Local Section and National Section.

We need the members to vote and approve the current changes to the ByLaws. Please send your vote-*Yes or No*-for the approval of the ByLaws to me via e-mail (stephanie.watson@nist.gov), by **October 17**.

October Dinner Meeting

Wednesday, October 24th - Villa Julie College

6:00-6:30pm	Registration / Networking & appetizers
6:30-7:30pm	Dinner
7:30-7:45pm	Braude Award Presentation
7:45-8:45pm	Presentation: “Enlightenment and the Responsibilities of the Enlightened in Communicating Chemistry”

Price: Cost for the dinner is \$25 for members; \$20 for spouses, retired chemists, guests, and students - \$10.
Contact: Shirish Shah at 410-323-0803 (H) or by email at dr.shah@juno.com

- Dinner meeting information continued on page 4 -

Abstract: “Enlightenment and the Responsibilities of the Enlightened in Communicating Chemistry”

Chemistry is both the central science and as the familiar science. The familiarity of chemistry has yet to be fully exploited in reaching all segments of society, especially the nonspecialists. Chemistry brings a wide range of goods and functions to everyone and thus is vital to our democracy. Science literacy is necessary for the democratic process to work. I make a distinction between scientific literacy, expertise in a particular field, and science literacy, a broad appreciation and understanding of science and its practitioners, and of what science is capable of achieving and what it cannot accomplish. Science literacy enlightens and enables people to make informed choices; to be skeptical; to reject shams, quackery, and unproven conjecture; and to avoid being bamboozled into making foolish decisions where matters of science and technology are concerned. Science literacy is for everyone-chemists, artists, humanists, all professionals, the general public, youth and adults alike. All practitioners of chemistry must work effectively to achieve science literacy by increasing awareness of chemicals, their transformations, hazards, and how they benefit everyone's health, safety, and environment.

We must improve and expand our role in communicating the value of science and technology to students, parents, community leaders, the public at large, and to decision makers in government and the private sector. We must showcase the best of chemistry as it addresses significant human and societal issues. My presentation will include demonstrations to show how science can be communicated to all segments of our society. Students, faculty, and all members of the community are invited. Come learn about combustion, exploding balloons, liquids that glow in the dark, polymers, and other spectacular scientific phenomena. You will sit at the edge of your seat and will see science in action.

ACS Maryland Section - Officers and Committee Chairs

Section Officers:

Chair - Stephanie J. Watson - (301) 975-6448; stephanie.watson@nist.gov

Vice-chair - Lev Ryzhkov - (410) 704-3831; lryzhkov@towson.edu

Chair-elect - Walter Roy - (410) 771-7886; walter_roy@mccormick.com

Secretary - Sara Narayan - (443) 334-2326; f-naraya@mail.vjc.edu

Treasurer - Angela Sherman - (410) 532-5713; CND of MD, 4701 North Charles Street, Baltimore, MD 21210
asherman@ndm.edu

Councilors:

Merle I. Eiss
410-484-0521

meiss32@aol.com

David Roswell
410-617-2458

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Charles Rowell
410-647-9452

cfrowell35@verizon.net

Alternate Councilors:

Shekar Munavalli, Shirish Shah, Paul Smith,
Joseph Topping

Members at Large:

Karen Hatwell, Maurice Iwunze, Liina Ladon,
Angela Wells Winstead, Takashi Tsukamoto

Committee Chairs:

Student Awards (April) - George Farrant - (410) 455-4120; gfarrant@ccbcmd.edu

MD ACS Student Grants (April) - Susan Mercer - sgill002@umaryland.edu or Paul Smith, 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

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

Environmental Issues - Shirish Shah - (410) 704-2720
sshah@towson.edu & Sandy Young

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 & Alan Samuels -
alan.samuels@us.army.mil

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

Women Chemists/Younger Chemists -
Sara Narayan - (410) 602-7326
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

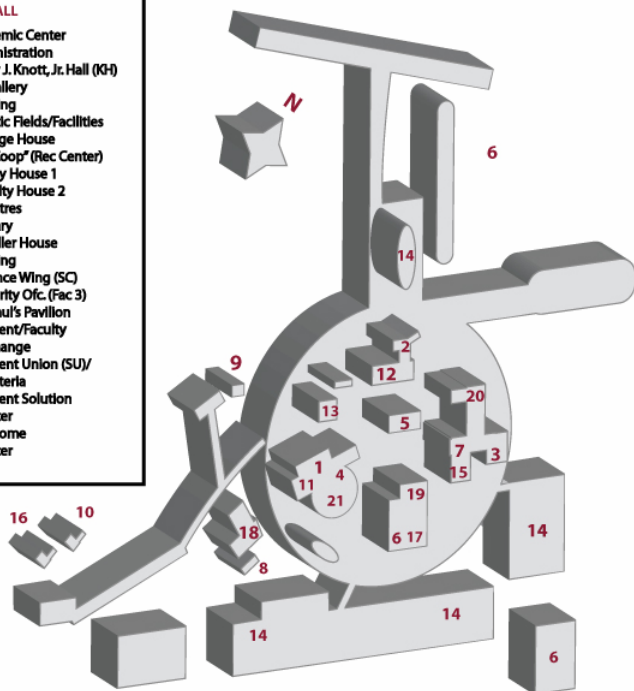
Maryland Section on the Web: <http://mdchem.org>
Webmaster - Sandy Young (mdchem@mdchem.org)

Chesapeake Chemist Editor:

Kevin Staigerwald (illustrator12@hotmail.com)
and
Sandy Young (mdchem@mdchem.org)

Directions to Villa Julie College:

- SHOW ALL
1. Academic Center
 2. Administration
 3. Henry J. Knott, Jr. Hall (K04)
 4. Art Gallery
 5. Art Wing
 6. Athletic Fields/Facilities
 7. Carriage House
 8. The "Coop" (Rec Center)
 9. Faculty House 1
 10. Faculty House 2
 11. Theatres
 12. Library
 13. Mueller House
 14. Parking
 15. Science Wing (SC)
 16. Security Ofc. (Fac 3)
 17. St. Paul's Pavilion
 18. Student/Faculty Exchange
 19. Student Union (SU)/Cafeteria
 20. Student Solution Center
 21. Welcome Center



Villa Julie College
1525 Green Spring Valley Road
Stevenson, MD 21153
<http://www.vjc.edu/>

Directions can be found on the Villa Julie website:
(<http://www.vjc.edu/explore/locations/stevensonmap.asp>)

From the beltway (695), take Falls Road north. At the light (approximately a mile), turn left on to Green Spring Valley Road. Cross the Green Spring Avenue intersection. From there, the college is approximately 2 miles on the left side. The gate for Villa Julie College is soon after the Sisters of Notre Dame Community gate. The meeting will be in Pavilion - #17 on the map - and there is visitor's parking around the Pavilion area (back of campus).

About the speaker

Dr. Bassam Z. Shakhashiri

University of Wisconsin-Madison

Professor of Chemistry and the William T. Evjue Distinguished Chair for the Wisconsin Idea

More information about Dr. Shakhashiri can be found on his website at: (<http://scifun.chem.wisc.edu>)

Bio:

Bassam Z. Shakhashiri is professor of chemistry at the University of Wisconsin-Madison and the first holder of the William T. Evjue Distinguished Chair for the [Wisconsin Idea](#). He is well known internationally for his effective leadership in promoting excellence in science education at all levels and for his development and use of demonstrations in the teaching of chemistry in classrooms as well as in less formal settings such as museums, convention centers, shopping malls and retirement homes. The [Encyclopedia Britannica](#) cites him as the "dean of lecture demonstrators in America." His scholarly publications, including the multi-volume series, [Chemical Demonstrations A Handbook for Teachers of Chemistry](#), are models of learning and instruction that have been translated into several languages.

As an advocate for chemistry Professor Shakhashiri has given over [1100 invited lectures and presentations](#) in North America, Europe, Asia, Australia, the Middle East, and South America. He is probably best known to the public at large in the USA for his annual program, "[Once upon a Christmas Cheery in the Lab of Shakhashiri](#)," which has been seen on PBS and on cable television stations throughout the country. This science-oriented entertainment has played to packed houses at such varied locations as the University of Wisconsin-Madison, the National Academy of Sciences and the Smithsonian's National Air and Space Museum in Washington, and the halls of the U.S. Congress. Professor Shakhashiri has given numerous presentations at [professional meetings](#), named lectureships and is a featured speaker at dedications of [new science buildings](#), science centers, commencements, and honors convocations. Professor Shakhashiri has been featured in newspapers, magazines, national and local radio and television, including the *New York Times*, the *Washington Post*, *Newsweek*, *Time*, the German-language *Business Week*, *Today's Chemist*, NBC Nightly News, National Public Radio, CNN, and the Larry King Show. He appears as a [regular guest](#) on the Ideas Network of Wisconsin Public Radio and on WKOW-TV's WAKE UP WISCONSIN.



Symposium on Energy Alternatives

The Maryland ACS Section is hosting a symposium on Energy Alternatives as a Joint ACS Section (Western MD and Washington, DC) meeting. The symposium will be held at **Hood College in Frederick, MD** on **Saturday, October 13** at the Whitaker Campus Center in the Common Room. **Registration fee:** \$30.00 (includes breakfast and lunch); for reservations, contact Dr. Shirish Shah: sshah@towson.edu, 410-704-2720 or more info contact: Dr. Stephanie Watson stephanie.watson@nist.gov, tel: 301-975-6448)

Schedule:

Registration (Continental Breakfast) 8:30 am to 9:30 am

Morning Presentations: 10:00 am to 12:10 pm

Photovoltaics

10:00 am: **"From Silicon to Solar Kilowatt-hour, BP Solar Path to Grid-Parity"** Jean P. Posbic, Ph.D., Director, Technology Projects, BP Solar

10:25 am: **"Photovoltaics"** A. Hunter Fanney, Ph.D., Chief, Building Environment Division, National Institute of Standards and Technology

10:50 am 10 minute Break

Wind Power

11:00 am: **"WIND-Solar Energy: FSU-MEA Residential Hybrid System"** Oguz and Hilkat Soysal, Ph.D. Department of Physics and Engineering, Frostburg State University

11:25 am: **"Wind Energy to Electrical Power - An Analysis to Design"** Julie Wang, Ph.D. and Joshua Pippin, Physics/Engineering Department, Frostburg State University

12:15 pm Lunch

Afternoon Presentations 1:30 pm to 3:30 pm

Fuel Cells

1:30 pm: **"Remaining Fundamental Challenges in Polymer Electrolyte Fuel Cells"** Matthew M. Mench, Ph.D., Director, Fuel Cell Dynamics and Diagnostics Laboratory, The Pennsylvania State University

1:55 pm: **"Coupling Waste Treatment with Bioenergy Production Using Microbial Fuel Cells"** John M. Regan, Ph.D., P.E., Civil and Environmental Engineering, The Pennsylvania State University

2:20 pm 10 minute Break

Alternative Fuels

2:30 pm: **"Alternative Fuel Transportation Technologies: What, Why, Where and How"** Bill Elrick, Executive Director, Torrington Group

2:55 pm: **"Biodiesel-The Fuel of Future?"** Bill McComas, Baltimore Biodiesel Co-Op

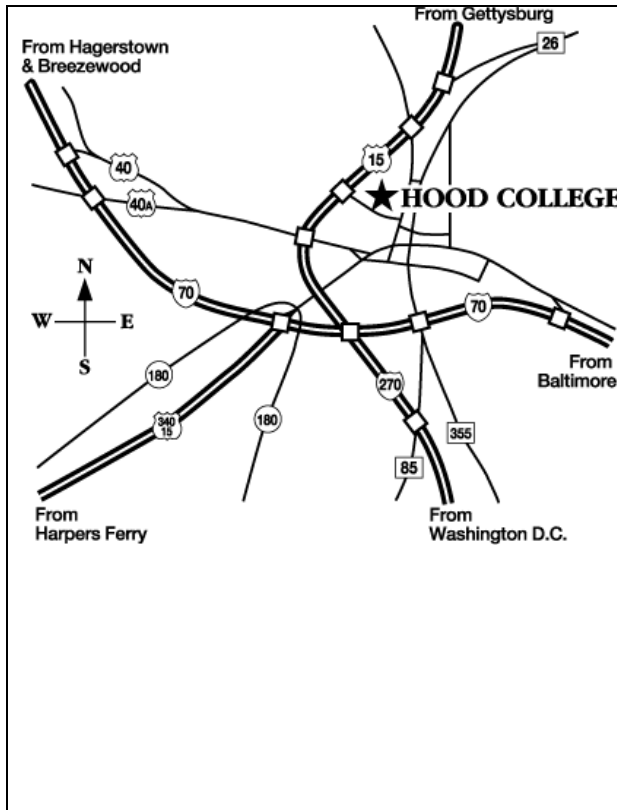
Directions to Hood College:

From Points North: Follow U.S. 15 south from Gettysburg and points north to Frederick. Take Rosemont Avenue exit. Turn right onto Rosemont Avenue. Travel approximately one-half mile and turn left at the entrance to Hood.

From Points West: Follow I-70 east from Hagerstown and points west. Take first Frederick exit onto U.S. 40. Follow U.S. 40 east to U.S. 15 north to Rosemont Avenue. Turn left onto Rosemont Ave. Travel approximately one-half mile and turn left at the entrance to Hood.

From Washington: Follow I-270 northwest from Washington, D.C., toward Frederick and Gettysburg. Avoid turning to I-70. I-270 ends and the highway becomes U.S. 15 North. Follow U.S. 15 north to Rosemont Avenue. Turn left onto Rosemont Ave. Travel approximately one-half mile and turn left at the entrance to Hood.

From Baltimore: Follow I-70 west from Baltimore to junction with U.S. 15 North (Exit 53). Follow U.S. 15 north to Rosemont Avenue exit. Turn left onto Rosemont Avenue. Travel approximately one-half mile and turn left at the entrance to Hood.



Science Fair Judges Needed

It's not too early in the school year for you to get involved with judging a science fair!!

Where: Chesapeake Science Point Charter School, Address: 1321 Mercedes Dr. Suites q-s, Hanover, MD 21076

When: Saturday, December 8th - 8:00am-5:00pm

(Judges may leave after judging is completed at 1pm, or remain for lunch and the awards ceremony through the remainder of the afternoon.)

If you are interested in volunteering to be a science fair judge, please contact Mr. Tuna via email

sciencefair@mycsp.org



Fall 2007 - Important Dates



- October 13, 2007 Alternative Energy Symposium - Hood College, Frederick, MD (Whitaker Campus Center in the Common Room) - directions at: directions are in this newsletter
- October 24, 2007 October Dinner Meeting: Braude Award (Award Recipient: Bassam Z. Shakhashiri, University of Wisconsin-Madison) - Villa Julie College, Stevenson, MD - - directions at: (<http://mdchem.org/meetings/villajulie.html>)
- November 14, 2007 November **Free** Meeting - speaker: Ms. Jennifer Giaccari, Conservation Scientist from Walter's Art Gallery, presentation "Chemistry in the service of Art: Investigating 19th century Parisian bronze casting techniques and the history of Thai pigments at the Walters Art Museum" - Knott Science Center, Room 136 - College of Notre Dame, Baltimore, MD - directions at: (<http://mdchem.org/meetings/notredame.html>) - light refreshments will be served
- November 15, 2007 America Recycles Day : <http://www.americarecyclesday.org>
- December 12, 2007 December Dinner Meeting: MD Chemist of the Year (Award Recipient: TBA) - Burkshire Marriott, Towson, MD - directions at: (<http://mdchem.org/meetings/burkshire.html>)



Spring 2008 - Important Dates



- January 15, 2008 Student Affiliate National Meeting Travel Grant application deadline
- April 6-10, 2008 235th National ACS Meeting & Exposition, New Orleans, LA
(<http://chemistry.org/meetings>)
- May 18-21, 2008 40th Mid-Atlantic Regional Meeting (MARM), Queensborough Community College of the City University of New York (<http://www.marmacs.org/2008/>) - Theme: Chemistry & Health



Summer 2008 - Important Dates



- June 16, 2008 Student Affiliate National Meeting Travel Grant application deadline
- July 13, 2008 MD ACS Annual Picnic, McKeldin Area, Patapsco State Park (Directions):
<http://mdchem.org/meetings/patapsco-mckeldin.html>

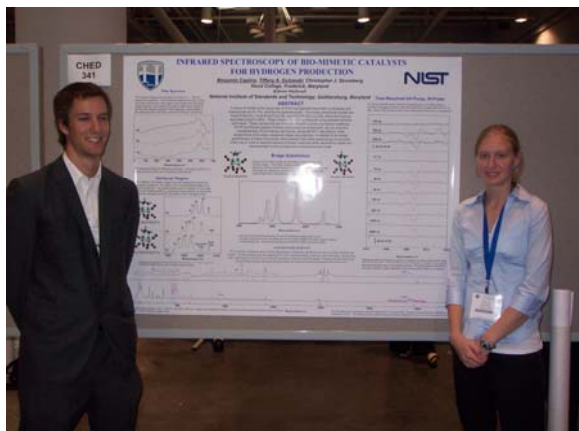


Fall 2008 - Important Dates



- August 17-21, 2008 236th National ACS Meeting & Exposition, Philadelphia, PA
(<http://chemistry.org/meetings>)

MD ACS Student Travel Awards



Hood College students Ben Caplins and Tiffany Gutowski presented results from their research with Professor Christopher Stromberg on models of Fe-only hydrogenase at the 234th National ACS Meeting in Boston. Tiffany was the recipient of an Undergraduate Student Travel Award from the Maryland Section to help her with travel costs and other expenses.

We asked Dr. Stromberg for his impression of the impact of students working in a lab and on a student going to a National ACS meeting.

Comments from Dr. Christopher Stromberg, Hood College Faculty:

“The number of students that I have working with me depends on what particular projects we have going on at the time. I usually (okay, for the last two years, since I started here) have had two students working with me on research projects (Tiffany is one of those students). I also had another student working with me over the summer on integrating a new Raman spectrometer into our lab courses (funded through an NSF-CCLI grant).

I have not brought students to National or Regional meetings before this, in part because I am relatively new here at Hood. Previous meetings have conflicted with the school year, as well. For this meeting, I brought my three students, plus another student who had done summer research with another faculty member. My two research students presented a poster. The other two will likely present posters at later meetings but did not present at this one.

To me, the main benefit of bringing students to National meetings is to give them a chance to experience the scale of the chemistry profession. They get a chance to see all of the different things that are going on, from academic research, to industry, to sales and marketing of products. The sheer size of a National meeting gives them a feel for how many opportunities are out there.

Beyond that, they also get a chance to explore the science that is going on. My school is pretty small, with only 4 chemistry faculty members. We all have research projects going on, and our students have been exposed to (and participated in) those projects. Seeing the variety and differing scales of projects gives them a great opportunity to see what might be interesting to them in the future.

The National meeting is also a chance for them to start networking with other chemists. They had a chance to meet people from all over the country and talk to them about what their careers have been like, how they got where they are, and what they might do differently. They also got to meet other people that are interested in their research, including people seeking out their poster because they were working on similar projects.

I would say it is a bit too early to tell if attending this particular meeting has influenced my students' career choices or job prospects. I did see them get interested in things I would have never expected. The effect that attending this meeting has on these students will probably be best measured years from now, when they look back and see what got them excited or what made a connection for them that they had not made before. I know I can look back at past meetings and see the talk that gave me the idea for my current research project, for instance.”

Morgan State University SAACS September Activities - by Dr. Louise Hellwig

Morgan State University's Student Affiliates have met several times this semester to hear various speakers, while enjoying a pizza lunch. At one meeting students related their experiences at summer internships and encouraged other students to apply for internships next summer. At another meeting Dr. Nakita Cropper, Pharm.D., a 1998 graduate of Morgan's Chemistry Department, discussed pharmacy as a career and also recruited for the new Pharm.D. program being established jointly between the University of North Carolina-Chapel Hill and Elizabeth City State University, where she is a professor. Finally Ms. Evelyn Davis described Morgan's HBCU-UP program, which supports students headed for graduate school with scholarships and research opportunities.



October Historical Events In Chemistry

By: Leopold May

- October 21, 1803 John Dalton presented the first experimental evidence for atoms on this date before the Manchester Literary & Philosophical Society.
- October 6, 1807 Two hundred years ago, Humphry Davy at the Royal Institution isolated potassium.
- October 27, 1827 Marcellin P. E. Berthelot, who was born on this date, was a founder of thermochemistry. He showed that nitrogen was fixed by electric discharges and bacteria. Also, he synthesized alcohol, formic acid, methane and acetylene.
- October 9, 1852 Emil H. Fischer synthesized sugars, caffeine, uric acid, and many other chemicals for which he received the Nobel Prize in 1902 in recognition of the extraordinary services he has rendered by his work on sugar and purine syntheses. He introduced projection formulas for spatial arrangements of group around chiral carbon atoms, which are known as Fischer projections. He was born on this date.
- October 12, 1865 Vladimir A. Kistiakowsky, who was born on this date, was a researcher in electrochemistry and thermodynamics.
- October 1, 1867 Wilder D. Bancroft, a researcher in electrochemistry; was the founder and Editor of the *Journal of Physical Chemistry* and served as Editor from 1896 to 1932 as well as President of ACS in 1910. He made the first systematic study of oxidation cells.
- October 17, 1873 Lev A. Chugaev, who was born on this day, developed complexing agents for analysis, studied inorganic chemistry of metal complexes, and xanthate pyrolysis.
- October 24, 1877 Roger Clark Wells did research on sodium compounds and chemical analyses of radioactive minerals. He served as the Chief Chemist of U. S. Geological Survey and was born on this day.
- October 30, 1895 Gerhard Domagk, who was born on this day, discovered the properties of prontosil, range-red dye containing sulfanilamide. In 1939, on instructions from German government, he refused the Nobel Prize in Chemistry. He also reported that isoniazid had anti-tubercular properties in 1952, which opened the age of chemotherapy.
- October 14, 1898 John M. Gulland, who did research on DNA, was born on this date. He also used electrometric titration to prove existence of hydrogen bonds and studied the titration of phosphoric acid.
- October 2, 1907 One hundred years ago, Alexander R. Todd was born. He did research in the chemistry of nucleotides and coenzymes and received the Nobel Prize in Chemistry in 1957 for synthesizing nucleic acids.
- October 18, 1912 Hercules was incorporated on this day.
- October 29, 1923 Carl Djerassi, a researcher in structure elucidation of natural products, was born on this date. He synthesized medicinals, and applied computer artificial intelligence to chemical problems. In addition, he writes novels and plays.
- October 7, 1939 Harold W. Kroto, who researched carbon chain molecules by using combination of synthesis, spectroscopy, and radioastronomy, was born on this date. In 1996, he shared the Nobel Prize in Chemistry with R. F. Curl, Jr., and R. E. Smalley for their discovery of fullerenes.
- October 4, 1957 Fifty years ago, the first artificial earth satellite, Sputnik, was launched by USSR.
- October 23, Any Year **Mole Day**, 6.02 a.m. through 6.02 p.m. (Mole time); Mole Moment: 50.453 s after 6.42 p.m.

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

Results 2008 MD ACS Ballot

Below are the results for the 2008 Maryland Section Executive Committee election.

Chair: Lev Ryzhkov, Towson University, lryzhkov@towson.edu

Vice-Chair: Walter Roy, McCormick & Company, Inc, walter.roy@mccormick.com

Chair-Elect: David Herlocker, McDaniel College, dherlock@mcdaniel.edu

Secretary: Sara Narayan, Villa Julie College

Treasurer: Liina Ladon, Towson University

Counselors: Merle Eiss, McCormick & Company, Inc
Charles Rowell, retired chemist
Stephanie Watson, NIST

Alternate Counselors: Shekar Munavalli
Shirish Shah
Joseph Topping
Paul Smith

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

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.

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.

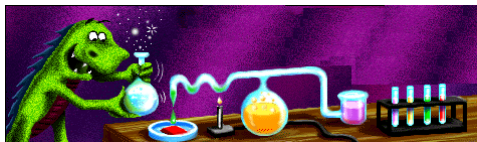
Changing your e-mail address? Moving out of the MD ACS area? E-mail changes can be updated either by:

- 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.

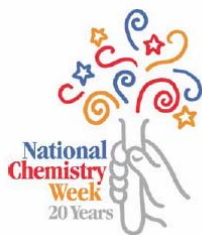
If you are a member who currently doesn't receive the Maryland ACS Chesapeake Chemist but download it from our website, it is possible that National ACS does not have your e-mail address on file. If you want to receive the Chesapeake Chemist via e-mail, please e-mail us at mdchem@mdchem.org – give us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



Outreach

Fall is a busy time for outreach. Many activities are planned and are being planned through Chemistry-in-the-Library and the Kids & Chemistry Programs.



National Chemistry Week is being held October 21-27, 2007. This year's theme is 'The Many Faces of Chemistry'. Come join chemists from the Army Research Laboratory and Edgewood Chemical and Biological Command and the Maryland Section of the American Chemical Society for hands-on experiments and a celebration of the 20th anniversary of National Chemistry Week. Ages 7 and up (7-8 year olds must be accompanied by an adult); 60 minutes.

- Tuesday, October 16 – 4-5:15pm - National Chemistry Week Activities – Waverly Library, Baltimore City
- Wednesday, October 17 - 4:30-5:30pm – National Chemistry Week Activities with Kids & Chemistry - Bel Air Library, Harford County
- Friday, October 19 – 10-11am - National Chemistry Week Activities – Glenwood Library, Howard County
- Friday, October 19 – 1-2pm - National Chemistry Week Activities – Savage Library, Howard County
- Saturday, October 20 – 2-3pm - National Chemistry Week Activities – Elkridge Library, Howard County
- Monday, October 22 - 4:30-5:30pm – National Chemistry Week Activities with Kids & Chemistry – Edgewood Library, Harford County
- Wednesday, October 24 – 9-11am - National Chemistry Week Activities – Halls Cross Roads Elementary School, Harford County
- Friday, October 26 – 8:30-11am - National Chemistry Week Activities – Moravia Park Elementary School – Baltimore City
- Friday, October 26 – 1:30-2:30pm - National Chemistry Week Activities – Colgate Elementary School – Baltimore County
- Saturday, October 27 – 2-3pm - National Chemistry Week Activities – East Columbia Library, Howard County
- Saturday, November 3 – 1:30-2:30pm - National Chemistry Week Activities – Rising Sun Library – Cecil County
- Thursday, November 8 - 4-5:15pm - National Chemistry Week Activities – Waverly Library, Baltimore City
- Friday, November 9 – 9am-2:30pm - National Chemistry Week Activities – Johnnycake Elementary School, Baltimore County

If you are interested in joining us for any of these events, please contact Sandy Young at mdchem@mdchem.org and reference 'Outreach Events'.

Other local National Chemistry Week events of interest:



**The Walters Art Museum
Celebrates National Chemistry Week**
(<http://www.thewalters.org>)

The Walters Art Museum is offering behind the scenes National Chemistry Week Tours of their conservation lab for Middle School Students on October 24 and for High School Students on October 26. Homeschool groups who are of the Middle School or High School age are welcome too! See their website (http://www.thewalters.org/wcontent/files/pages_new/chemistry_week.aspx) for details.

***BYLAWS OF THE MARYLAND SECTION OF THE AMERICAN CHEMICAL SOCIETY**

Bylaw I – Name

This name of this organization shall be the Maryland Section (hereinafter referred to as the “Section”) of the AMERICAN CHEMICAL SOCIETY (hereinafter referred to as the SOCIETY).

Bylaw II – Objects

Section 1. The objects of the Section shall be the same as those of the SOCIETY in the Constitution of the SOCIETY

Section 2. Nothing in these bylaws shall be inconsistent with the Charter, Constitution and Bylaws of the SOCIETY.

Bylaw III – Territory and Headquarters

The territory of the Section shall be that assigned to it by the SOCIETY

Bylaw IV – MEMBERS, ASSOCIATE MEMBERS, and Affiliates

Section 1. The rolls of the Section shall include those MEMBERS, ASSOCIATE MEMBERS, and **Society National** Affiliates of the SOCIETY residing within the territory of the Section, provided that exceptions to this rule shall be made in conformity with the Constitution and Bylaws of the SOCIETY.

Section 2. The Section may have Local Section Affiliates as authorized in the Constitution and Bylaws of the SOCIETY.

Section 3. MEMBERS, ASSOCIATE MEMBERS, **Society National** Affiliates, and Local Section Affiliates shall have such rights and privileges as are accorded them by the Constitution and Bylaws of the SOCIETY. All members may vote. An ASSOCIATE MEMBER is entitled to all privileges of membership except that of holding an elective position or serving as a Temporary Substitute Councilor.

Society National Affiliates and Local Section Affiliates may not vote for or hold an elective position of the Section, vote on articles of incorporation or bylaws of the Section, or serve as Temporary Substitute Councilor.

Bylaw V – Organization

Section 1. The officers of the Section shall be a Chair, Vice-Chair, Chair-Elect, Secretary, and Treasurer.

Section 2. The Section shall have Councilors and Alternate Councilors as provided in the Constitution and Bylaws of the SOCIETY.

Section 3. The Executive Committee shall consist of the officers of the Section, the Councilors, Alternate Councilors, Past Chairs residing within the territory of the Section, five Members-at-Large, the Editor and Business Manager of *The Chesapeake Chemist*, and the chairs of all standing committees.

Section 4. All officers, Councilors, Alternate Councilors, and other persons holding an elective office shall be chosen from the MEMBERS.

***Effective December 31, 1998.** Approved, as amended, by the Committee on Constitution and Bylaws, acting for the Council of the AMERICAN CHEMICAL SOCIETY.

Bylaw VI—Manner of Election and Terms of Office

Section 1. Officers of the Section and Members-at-Large of the Executive Committee shall be elected annually and serve for a term of one year, beginning on January 1 following their election, or until their successors are qualified. The Vice-Chair shall automatically be nominated to serve in the office of Chair upon completion of the term of the Vice-Chair. The Chair-Elect shall automatically be nominated to serve in the office of Vice-Chair upon completion of the term of Chair-Elect.

Section 2. Councilors and Alternate Councilors shall be elected for a term of three years, beginning on January 1 following their election, or until their successors are qualified. The number of Councilors shall be determined by the SOCIETY.

Section 3. In the event of a vacancy in the office of Chair, the Vice-Chair shall assume the duties of the Chair for the unexpired term and the Chair-Elect shall assume the added duties of the Vice-Chair when that position is vacant. In the event of a vacancy, elective positions shall be filled for a period up to the next annual election by a vote of the Executive Committee. In the event the office of Chair-Elect is filled by such interim appointment, the Section shall elect both a Vice-Chair and Chair-Elect at its next annual election. A Chair may not serve **a term of** more than one year unless the duties of Chair were assumed for a partial term to fill a vacancy.

Section 4. Nominations.

a. The Chair shall appoint in August of the year preceding the election a Nominating Committee of five persons, not more than three of whom are to be members of the Executive Committee. One of the appointees shall be the Vice-Chair. The Chair shall designate any of the five to be Chair of the Committee.

b. Notice of the names of those on the Nominating Committee shall be published in *The Chesapeake Chemist* by November of the year preceding the election. This shall be prior to the meeting of the Nominating Committee to permit members time to suggest suitable candidates for elective positions for which vacancies shall occur after December 31 of the following year.

c. The Nominating Committee shall meet at such a time that its nominations may appear in the January issue of *The Chesapeake Chemist*. The Committee shall select one or more candidates for each position up for election.

d. Before February 15, members of the Section may nominate candidates for any office by providing the Section Chair with nominating petitions containing the signatures of at least two percent (2%) of the Section members. To be valid, the signature of a member may not appear on behalf of more than one candidate for the same office. The names of any such MEMBERS so nominated shall be included on the ballots with the names of those nominated by the Nominating Committee.

e. In all cases, before a name can be placed on the ballot, the nominee must agree to serve if elected.

f. Publication of the slate of candidates in *The Chesapeake Chemist* and its mailing shall be considered adequate notice to the members.

Section 5. Elections.

(a) The elections shall be held by ballot **published mailed** in **or with** *The Chesapeake Chemist* or **distributed** separately before May 15 to all members of the Section. The names of all candidates shall appear on the ballot whether opposed or not.

(b) The **voted** ballots must be returned to the Chair by July 10.

c. If a single candidate is to be elected, the candidate with the largest number of votes will be declared elected. Positions for which more than one candidate is to be elected (e.g., Member-at-Large of the Executive Committee) shall be filled by declaring those candidates elected who receive the largest number of votes. In the event of a tie vote, a special committee consisting of the Section Chair, Vice-Chair, Chair-Elect, Secretary, Treasurer, and Chair of the Nominating Committee shall by a majority vote determine the winner.

d. The Chair of the Section shall count the ballots in the presence of witnesses and certify to the Executive Director of the SOCIETY, as soon as possible but not later than August 1 of each year, the names, addresses, and terms of the elected officials from the Section for the following year.

Bylaw VII – Duties of Officers and Executive Committee

Section 1. The duties of the officers shall be those customarily performed by such officers, together with those responsibilities prescribed by the Constitution and Bylaws of the SOCIETY and these bylaws along with other duties as may be assigned from time to time by the Executive Committee.

Section 2. The Chair of the Section shall serve as Chair of the Executive Committee, shall appoint members and/or affiliates and chairs to standing committees, and may establish any standing committees authorized in these bylaws or by the Executive Committee. The Chair shall appoint a committee to audit the Treasurer's records annually.

Section 3. The Executive Committee shall be the governing body of the Section and, as such, shall have full power to conduct, manage, and direct the business and affairs of the Section in accordance with the Constitution and Bylaws of the SOCIETY and these bylaws.

Section 4. The latest edition of *Robert's Rules of Order, Newly Revised* shall be used as the authority to resolve procedural matters during business meetings.

Bylaw VIII – Committees

Section 1. There shall be the following standing committees:

- Archives and History
- Awards and Nominations
 - George L. Braude Award
 - Society Nominations
 - Maryland Chemist Award
 - Maryland Service Award
 - Remsen Memorial Award
 - Student Awards
 - W. R. Grace & Co. Award
- Bylaws
- Chemical Education and Safety
- Education
- Finance
- High School Activities
- House
- Investment
- Long Range Planning
- Member Assistance
- Membership Development
- Program
- Public Relations
- Publicity
- Women Chemists

Section 2. The Chair or Executive Committee may establish, abolish, and define the duties of any *ad hoc* committee. The duties of all committees shall be as described from time to time by the Executive Committee.

Section 3. The Vice-Chair of the Section shall be the Chair of the Program Committee.

Section 4. The chairs of the various Awards and Society Nominations Committees shall submit the names of all nominees and all supporting documents along with the committee's recommendations to the Section Chair. Submissions must be made by the dates that follow:

George L. Braude award	May 1 of the year of the award
Maryland Chemist Award	July 1 of the year of award
Maryland Service Award	August 1 of the year of award
Remsen Memorial Award	December 1 of the year preceding award

Section 5. The final selection of individuals for Section awards or nominations for other awards shall be made by a committee consisting of the Section Chair, Vice-Chair, Chair-Elect, Treasurer, Secretary, and Immediate Past Chair of the Section.

Section 6. Recipients of Maryland Chemists Award must have been members of the Section for a minimum of five years and have made outstanding contributions to chemistry as defined in the Constitution of the SOCIETY (chemistry is defined in very broad terms). The work on which the award is based should have been performed in Maryland.

Section 7. The Investment Committee shall select appropriate investments for the Section's funds subject to approval of the Executive Committee. When necessary the Investment Committee shall have independent authority to direct the Treasurer on buying and selling an investment. The Treasurer shall report the status of all such actions at each Executive Committee Meeting or on request by the Section Chair. The Investment Committee should consist of three members, preferably past Treasurers with some investment experience.

Section 8. The Finance Committee shall prepare an annual budget for annual review by the Executive Committee.

Bylaw IX – Meetings

Section 1. A regular meeting of the Section shall be one at which business of the Section, which may require a vote of the members, may be conveniently transacted.

Section 2. The Section shall hold not less than 6 regular meetings each year, at places and times designated by the Executive Committee.

Section 3. The Section may hold special business meetings at the call of the Executive Committee, or by the request of 50 members of the Section. Any other meetings shall be called only by the Executive Committee. The notices of special business meetings shall state the exact nature of the business to be transacted, and no other business shall transpire at such meetings.

Section 4. Due notice of all meetings shall be sent to each MEMBER, ASSOCIATE MEMBER, Society Affiliate, and Local Section Affiliate of the Section. A quorum for all meetings of the Section shall consist of four percent (4%) of the members of the Section. In the absence of a quorum, no business shall be transacted, except that any pending business shall be postponed to a meeting to be held on a specified date.

Section 5. The Executive Committee shall meet not less than four times each year upon due notice to its members at the call of the Chair or at the request of a majority of the members of the Committee. In the absence of a quorum, which shall be 25 percent (25%) of the members of the Executive Committee, exclusive of Past Chairs not serving in another capacity on the Executive Committee, called meetings of the Executive Committee shall adjourn to a specified date.

Bylaw X – Finances

Section 1. All Section funds shall be received and disbursed by the Treasurer, subject to the approval of the Executive Committee.

Section 2. The Executive Committee may authorize the Treasurer to solicit from all MEMBERS, ASSOCIATE MEMBERS, Society Affiliates, and Local Section Affiliates of the Section, except members of the SOCIETY in emeritus status, the payment of such voluntary Section dues as may be set by that Committee.

Section 3. The annual dues of the Local Section Affiliates shall be set by the Executive Committee in accordance with the Constitution and Bylaws of the SOCIETY. The dues of Local Section Affiliates will be equivalent to current Section dues

plus an amount approved by the Executive Committee approximately equivalent to the apportionment made by the SOCIETY for each member. Failure to pay such dues in advance shall automatically terminate such affiliation.

Section 4. The Executive Committee may authorize the Treasurer to solicit from MEMBERS, ASSOCIATE MEMBERS, Society Affiliates, and Local Section Affiliates of the Section such voluntary contributions for special purposes as may be set by that Committee from time to time.

Bylaw XI – Section Affiliation

Section 1. The Section may affiliate with other technical and professional organizations that operate within its territory and enhance its ability to pursue the objects of the SOCIETY providing such affiliations

- a. do not make the Section responsible for debts incurred by said organization,
- b. do not commit the Section to actions or positions of said organization,
- c. shall be approved by mail ballot of the Section's members, and
- d. are approved by the Committee on Constitution and Bylaws acting for the SOCIETY.

Section 2. Affiliation shall permit business arrangements between the organizations if such arrangements meet the first two criteria and generally support the program goals of the Section.

Section 3. The Section is affiliated with the following Group(s):

(a) Chemistry Educators of Maryland.

Bylaw XII – Amendments

Section 1. A proposed amendment to these bylaws must first be submitted in writing to the Executive Committee. If it is approved by a majority of the Executive Committee, or if the proposal is signed by 50 or more members of the Section, the Secretary shall publish mail to for all members of the Section copies of the proposed amendment.

Section 2. A letter ballot, a copy of Bylaw XII, and the section of the bylaws to be amended shall accompany the notice of the proposed amendment. The amendment may be adopted if two-thirds (2/3) of the ballots returned to the Secretary, within 30 days after the mailing publishing of the notice, are in the affirmative. The amendment shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council, unless a later date is specified.

Bylaw XIII – Dissolution of the Section

Upon the dissolution of the Local Section, any assets of the Section remaining thereafter shall be conveyed to such organization then existent, within or without the territory of the Local Section, as is dedicated to the perpetuation of objects similar to those of the AMERICAN CHEMICAL SOCIETY, or to the AMERICAN CHEMICAL SOCIETY, so long as whichever organization is selected by the governing body of the Local Section at the time of dissolution shall be exempt under Sec. 501(c)(3) of the Internal Revenue Code of 1954 as amended or under such successor provision of the Code as may be in effect at the time of the Section's dissolution.

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.

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 for more information.

FRONTIERS IN CHEMISTRY, BIOPHARMACEUTICALS & BIOTECHNOLOGY



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Western Regional Meeting

October 9 -13, 2007

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