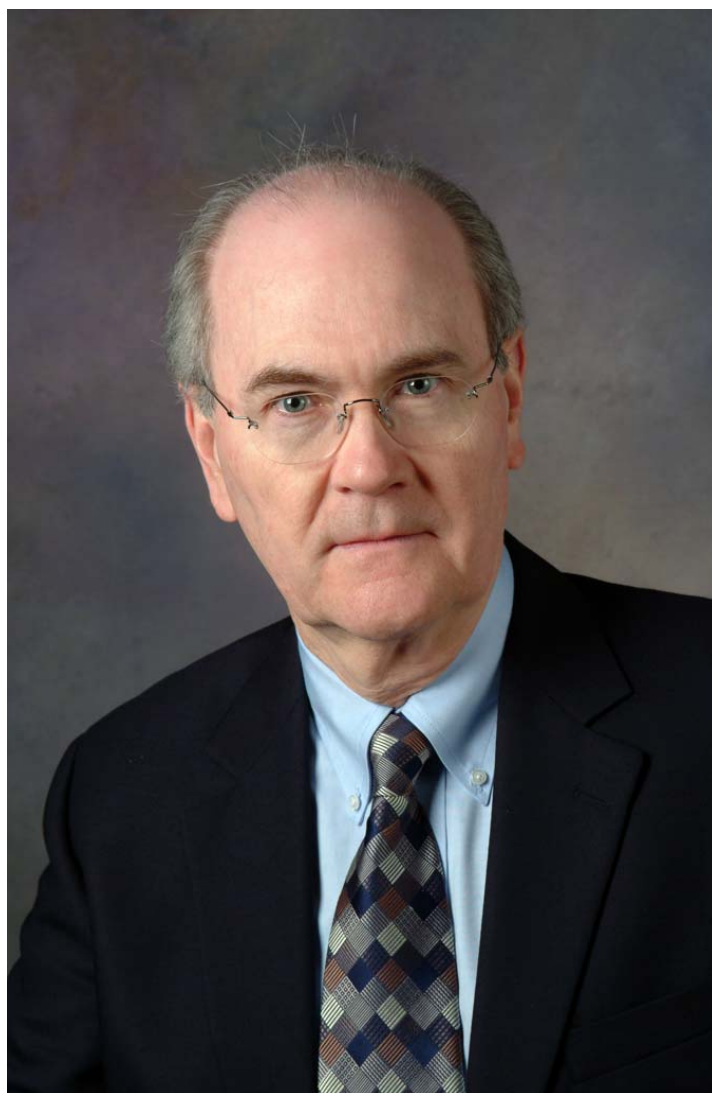


Chesapeake Chemist

Maryland Section
American Chemical
Society



~ Dr. Victor E. Márquez ~
Chief, Laboratory of Medicinal Chemistry,
Center for Cancer Research, National Cancer Institute at Frederick

“The ribose ring of nucleosides: What can it teach us about evolution, chemistry and drug design?”

Wednesday, December 10th, 2008 – 6pm – Berkshire Marriott Hotel & Conference Center, Towson, MD

Message from the Chair

By: Lev Ryzhkov

Please join us for the December Meeting where we will honor the Maryland Chemist of the Year.

December Meeting

Wednesday, December 10th, 2008 – 6pm – Burkshire Marriott Hotel & Conference Center, Towson, MD

5:30-6:15pm	Maryland Section – Executive Committee Meeting
6-6:30pm	Registration / Networking & appetizers
6:30-7:30pm	Dinner
7:30-7:45pm	Maryland Chemist of the Year Award Presentation
7:45-8:45pm	Presentation: <i>'The ribose ring of nucleosides: What can it teach us about evolution, chemistry and drug design?'</i> Victor E. Márquez, Ph.D. Chief, Laboratory of Medicinal Chemistry, Center for Cancer Research, National Cancer Institute at Frederick, NIH, Frederick, MD, 21702 ~Question and Answer (10 minutes)~

Price: Cost for the dinner is \$25 - members; \$20 - spouses, retired chemists, & guests; and \$10 - students
Contact: For questions, contact Shirish Shah at 410-323-0803 (H) or by email at dr.shah@juno.com
Where: Burkshire Marriott Hotel & Conference Center, Towson, MD

Directions to Burkshire Marriott Conference Center: 10 West Burke Avenue, Towson, MD

- From the Baltimore beltway, I-695, follow to exit 27, Dulaney Valley Road
- The Burkshire is on the left side as you enter Burke Ave. (18-story building). Meeting attendees should proceed to the left lane. Turn left into the Burkshire's parking entrance. Turn the corner and make an immediate right into the P2 parking garage.
- (You may have to press the intercom button for admittance to the elevators)
- Proceed to the front desk to get a parking pass required for your car
- Look for signs posted in the lobby and by the elevators to locate the dining room

~ A map is available on-line at: <http://www.mdchem.org/meetings/burkshire.html> ~

Abstract: *'The ribose ring of nucleosides: What can it teach us about evolution, chemistry and drug design?'*

Ribose and 2'-deoxyribose (furanoses) are nature's favorite five-membered ring structures as they are essential components of nucleosides. When connected together by phosphate linkages (as nucleotides) they form the DNA and RNA chains. DNA is the storehouse of genetic information, which can be duplicated during each cell division or transcribed into the corresponding RNA. The five-membered rings of furanoses are puckered as: (1) envelope (E) forms with four atoms in a plane and a fifth atom displaced above or below the plane; and (2) twist (T) forms with two adjacent atoms displaced on opposite side of the plane through the other three atoms. The puckering of five-membered rings has been treated analytically in a form elegantly represented by the concept of pseudorotation (P), which was first introduced for cyclopentane and later applied to the substituted furanose ring of nucleosides. Not all torsional angles for ribose and 2'-deoxyribose are feasible, but rather certain sterically allowed conformations are preferred. Indeed, a statistical classification of the number of conformations allowed for nucleosides in the solid state shows that only two relatively narrow pseudorotational ranges are preferred, each occupying less than 10% of the total pseudorotational pathway. These narrow ranges are conventionally defined as North (N) and South (S) because they occupy, respectively, the tips of the Northern and Southern hemispheres of the pseudorotational cycle. In solution, however, N and S conformations interconvert rapidly, a process that can be followed by NMR spectroscopy.

~ Abstract continued on Page 4 ~

ACS Maryland Section - Officers and Committee Chairs

Section Officers:

Chair 2008 - Lev Ryzhkov, Towson University - (410) 704-3831; lryzhkov@towson.edu

Vice-chair (chair 2009) - Walter Roy, McCormick & Company, Inc, (410) 771-7886; walter_roy@mccormick.com

Chair-elect (chair 2010) - Alvin Kennedy, Morgan State University, (443) 885-3115; alvin.kennedy@morgan.edu

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

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

Councilors:

Merle I. Eiss meiss32@aol.com Stephanie J. Watson
stephanie.watson@nist.gov

David Roswell droswell@loyola.edu Charles Rowell
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

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

Remsen Award (May/June) - Lev Ryzhkov

Braude Award (October) - Charles Rowell

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

Maryland Service Award - Shree Ivengar - (410) 777-2266; ssivengar@acc.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

Student Affiliate Liaison - Louise Hellwig

Women Chemists/Younger Chemists - Sara Narayan -
443-334-2326 / Amanda (Miller) Idstein -
aredmiller@cs.com

Educational Programs:

Chemistry Olympiad/Chem-a-Thon -
Shirish Shah & Mike Zapf,
Mike_Zapf@mccormick.com

Continuing Education/High School Education -
Shirish Shah/Ellen Pisciotta

Kids & Chemistry/Chemistry-in-the-Library -
Sue Procell, 410-436-4604,
suzanne.procell@us.army.mil /Sandy Young

National Chemistry Week (NCW) -
Shirish Shah & Sandy Young

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

Webmaster - Sandy Young (mdchem@mdchem.org)

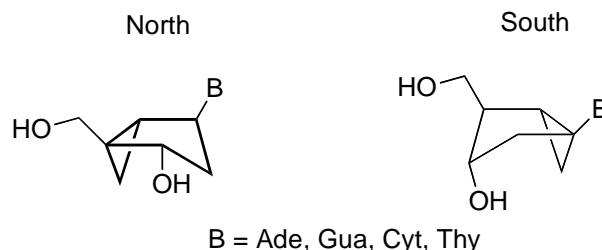
Chesapeake Chemist Editor:

(mdchem@mdchem.org)

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

Abstract continued:

When an individual nucleoside (or nucleotide) binds to an organized macromolecule (*i.e.* an enzyme), it is expected that the architecture of the binding pocket will impose a specific conformational demand on the furanose ring (N or S) for optimal fit that should result in measurable differences in terms of energy of binding and/or catalytic activity. We have attempted to answer this question by measuring the stability and catalytic efficiency of enzyme-bound nucleosides (or nucleotides) as a function of the conformation of the sugar moiety. Because in solution N and S nucleosides are in a rapid dynamic equilibrium, it was necessary to build conformationally rigid nucleosides to allow the enzyme to choose its preferred conformer. This was accomplished by building carbocyclic nucleosides on a bicyclo[3.1.0]hexane template (see structures) which can lock the embedded furanose surrogate (the cyclopentane ring) into either a N or S envelope conformation, depending on the substitution pattern. Using this type of conformationally locked nucleosides, we have been able to determine the conformational preferences of a number of enzymes including adenosine deaminase (ADA), cytidine deaminase (CDA), HIV reverse transcriptase, DNA (cytosine-C5) methyl transferase, several subtypes of adenosine receptors, and more recently the kinases and polymerases involved in the activation of antiviral nucleosides.



When the furanose rings of nucleosides occupy similar N or S domains in polymeric structures (e.g. DNA and RNA) it leads to two different categories of polynucleotide conformations, known as A- and B-type families, respectively. Again, the biological consequences of these conformational changes are enormous and short oligomeric structures built with conformationally locked N or S units have helped us answer many important biological questions regarding the importance of DNA bending and RNA polymorphism.

The major concepts that support this work, which bring together the disciplines of chemistry, biology and physics will be presented.

About the Speaker:

Victor E. Márquez, Ph.D.

Chief, Laboratory of Medicinal Chemistry, Center for Cancer Research, National Cancer Institute at Frederick, NIH, Frederick, MD, 21702

<http://ccr.cancer.gov/Staff/staff.asp?profileid=5808>

Short Bio: Dr. Marquez received his Ph.D. in medicinal chemistry from the University of Michigan in 1970. After 1 year of postdoctoral training at the National Cancer Institute (NCI), he worked in private industry for 5 years in Venezuela. He rejoined the NCI in 1977 as a visiting scientist and was awarded tenure in 1987 after becoming a naturalized citizen. His main research interests are nucleoside chemistry and synthetic organic chemistry as tools for the rational design of antitumor and antiviral agents. Dr. Marquez has authored or coauthored more than 310 publications and has received 25 U.S. patents.

Maryland Chemist of the Year Award Citation:

In acknowledgement and appreciation of his outstanding research accomplishments in medicinal chemistry and in recognition of his significant contributions to nucleoside chemistry and synthetic organic chemistry as tools for the rational design of antitumor and antiviral agents.

Awarded this 10th day of December 2008 with the admiration and appreciation of his fellow professionals.

Maryland Chemist Award

The Maryland Chemist Award was established in 1962 to recognize and to honor, each year, a member of the Maryland Section for outstanding achievement in the fields of chemistry. The achievement, as originally stated, may be in pure or applied chemistry, chemical engineering, or chemical education. Some recipients have distinguished themselves in management. The section's Bylaw VIII (applicable section quoted below) establishes the rules of selection of recipients of the Maryland Chemist Award. Recommendations of the Awards Committee must be approved by the section officers.

"Recipients of the Maryland Chemist 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 broad terms). The work on which the award is based should have been performed in Maryland."

A list of previous awardees can be found on the Maryland ACS website at: (<http://mdchem.org/mdchem.html>).

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. 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.



Fall 2008 – Important Dates



December 10, 2008 Section Meeting & Maryland Chemist of the Year Award Dinner – Burkshire Marriott Hotel & Conference Center, Towson, MD – Awardee: Dr. Victor E. Marquez, Chief, Laboratory of Medicinal Chemistry, Center for Cancer Research, National Cancer Institute, NIH, in Frederick, MD



Spring 2009 - Important Dates



February 2009 Section Meeting – Date/Location to be determined
March 22-26, 2009 237th National ACS Meeting & Exposition, Salt Lake City, UT (<http://chemistry.org/meetings>)
April 2009 Student Awards Meeting – Date/Location to be determined
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 238th National ACS Meeting & Exposition, Washington DC (<http://chemistry.org/meetings>)



December Historical Events In Chemistry

By: Leopold May

- December 2, 1942 First atomic pile produced first self-sustained nuclear chain reaction under Stagg Field, University of Chicago.
- December 3, 1933 Seventy-five years ago, Paul Crutzen, who is a researcher in chemistry of the atmosphere, was born. In 1996, he shared the Nobel Prize in Chemistry with Mario Molina and F. Sherwood Rowland for their work in atmospheric chemistry, particularly concerning the formation and decomposition of ozone.
- December 4, 1908 One hundred years ago Alfred D. Hershey was born on this date. In 1969, he shared the Nobel Prize in Physiology or Medicine with Max Delbrück and Salvador E. L. Kuria for their discoveries concerning the replication mechanism and the genetic structure of viruses
- December 6, 1835 One hundred and twenty-five years ago, Rudolf Fittig synthesized coumarone in 1883. He also synthesized lactones, with B. C. G. Tollens; toluene; and discovered diphenyl and phenanthrene in 1872. He was born on this date.
- December 9, 1868 Fritz Haber, who was born on this date, synthesized ammonia from hydrogen & nitrogen under high pressures (Haber Process). In 1918, he received the Nobel Prize for the synthesis of ammonia from its elements.
- December 12, 1775 William Henry, who was born on this day, discovered that the amount of gas absorbed by a liquid is proportional to the gas pressure.
- December 14, 1909 Fifty years ago, Edward L. Tatum shared the Nobel Prize in Physiology or Medicine with George W. Beadle for their discovery that genes act by regulating definite chemical events and Joshua Lederberg for his discoveries concerning genetic recombination and the organization of the genetic material of bacteria and discovered genes that regulate certain chemical processes. He was born on this date.
- December 17, 1778 Two hundred years ago, Humphry Davy discovered barium and strontium and in 1807, potassium and sodium. He born on this date and invented the Davy mine safety lamp.
- December 17, 1908 One hundred years ago, Willard F. Libby was born. He developed carbon dating and received the Nobel Prize in Chemistry in 1960, for his method to use carbon 14 for age determination in archaeology, geology, geophysics, and other branches of science.
- December 18, 1890 Mary L. Caldwell, who isolated enzymes for individual analyses, was born on this date.
- December 23, 1912 Twenty-five years ago, Anna J. Harrison served as president of the American Association for the Advancement of Science. She was the first woman to be the president of the ACS in 1978 and was born on this date.
- December 29, 1879 Ellen Gledirsch, who was born on this date, made accurate measurements of the half-life of radium.

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)

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> .

ACS Maryland Section Survey

At the end of every year, we publish a section survey for the Maryland Section of the ACS. This survey helps us (the Maryland ACS Executive Committee) to gauge member satisfaction with various section efforts and plan for next year's activities.

You can submit your answers on-line through Survey Monkey by entering the following link into your internet browser: (http://www.surveymonkey.com/s.aspx?sm=IWPTyAhVXmajvtHVK3Lv3g_3d_3d).

If you are reading a printed copy of this newsletter and do not have access to the internet, please snail mail your survey responses to Maryland ACS, re: Annual Section Survey, 2904 White Avenue, Baltimore, MD 21214 by December 31, 2008. **Thank you for taking the time to give your input!!** We hope to publish the results of the survey in the February Chesapeake Chemist.

Survey Contents:

1. Please enter your ACS member number here. (While we will not keep these, we will use this to ensure that only Maryland ACS members submit the survey and that the survey is only submitted once.)

2. Did you participate in any Maryland ACS event this calendar year?

If 'yes', please just write 'yes' and continue with the survey & answer the other questions below.

If 'no', please let us know why. Did some of the monthly meeting topics sound interesting but you are just busy with work/family? Is there a problem with meeting locations? Or for any other reason... please let us know in this available space! There is no other portion of the survey that you need to fill out.

Survey questions found here for those members who participated in Maryland Section ACS events.

Please take a few minutes to look over and evaluate the activities that you took part in this year, marking each with a number from 1 (Best) to 5 (Worst) or N/A if you did not take part in the activity.

Activities & Communication:

Regular and Award Dinner Meetings:

- ____ Student Awards (April)
- ____ Remsen Award (May)
- ____ Braude Award (October)
- ____ MD Chemist Award (December)

- ____ Reception & Presentation (alternative dinner meeting - Nov)

Outreach Events:

- ____ Chemistry-in-the-Library
- ____ Kids and Chemistry
- ____ National Chemistry Week

General Events:

- ____ Earth Day Celebration

Section Communication:

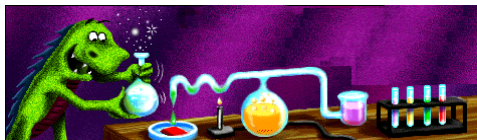
- ____ Chesapeake Chemist
- ____ MD ACS website (<http://mdchem.org>)

High School & College/University Events:

- ____ Chemistry Olympics
- ____ Chemagination

- ____ SAACS (Chemistry Clubs at Colleges and Universities)
- ____ SAACS Bowling event
- ____ SAACS Social at Dave N' Busters
- ____ Grants available to undergraduates for ACS travel, outreach, etc

Other or Comments: _____



Outreach

With National Chemistry Week over, many people think that we've gone into hibernation. But while things are a little quiet for outreach, we are making some early plans for Earth Day events and schedule some library events. Details of these events will be published in the February 2009 Chesapeake Chemist.

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.

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).

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 4th, 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 POC: Dr. Paul Smith, UMBC, (pjsmith@umbc.edu).

Student Affiliate Corner

Morgan State University

By: Louise Hellwig (Louise.Hellwig@morgan.edu)

Ms. Genise Fleming brought her Edgewood High School chemistry class to Morgan State's Chemistry Department for a field trip. Dr. Ernie Silversmith presented an hour's worth of chemical demonstrations. The high school students attended part of Dr. Alvin Kennedy's General Chemistry class, and SA-ACS members guided the students on a tour of the research labs before a pizza lunch.

Yusuf Ali, Morgan '08, now a medical student at the University of Maryland, spoke at a SA-ACS meeting, advising current Morgan students on applying to medical school, and describing his experiences so far. As an undergrad, Yusuf was a faithful SA-ACS member.



Teams of Morgan students in the Morgan Undergraduate Chemistry Help (MUCH) program are visiting Hazelwood and Northwood Elementary Schools weekly, leading the children in such experiments as making slime, making ice cream in a baggie, and inflating a balloon with the CO₂ gas formed when baking soda reacts with vinegar, as shown in the photo.

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 15th 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.

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) and Dr. George Farrant (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.

2009 Chemistry Olympiad - April 2009

National has announced 2009 program and the Section has submitted our interest to join the program once again; the record will show that the MD Section has participated in 20/25 years since the beginning of the US program. Perhaps you are interested in being a part of our program? You may choose to play a small or larger role.

The duties necessary to complete our program as follows: initiate the mailing of announcements (service center), proctor a section of the Exam or the entire Exam, collate and ensure the timely submission of the exam materials. The Exam is given in late April at one of our local colleges, we test about 7 to 13 students, and at lunch we enjoy the company and successes of a nice and intelligent group of students. Each step is easy, and we would welcome your interest in any part.

Please contact Mike Zapf at mike_zapf@mccormick.com or 410-771-7471 if you have an interest in this program.

November Meeting Recap



The November meeting was NOT a dinner meeting but during the social provided a range of appetizers & beverages for about 30 people who attended prior to the presentation. Pictured here are vice-chair (and former chair) Walter Roy with colleague and speaker Carolyn Fisher.

About 55 people attended the presentation given by Dr. Carolyn Fisher on 'What is Natural Food Chemistry?' In addition to the discussion of the fairly complex rules governing whether a food can be considered natural, various discussions occurred afterwards with good questions from the audience. For example, a discussion was had on the difference between natural & organic foods.

Many thanks to the hard working individuals who volunteered to host and organize this successful event at the College of Notre Dame!

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).

Maryland Section Membership

On a monthly basis, members come & go – some are new, some are reinstated. Others move out of the section or cancel their membership. This month we had a gain of 29 members and a loss of 27 members. Our membership is fairly stable at 1,988 members.

We welcome those who are new to our section and invite you to participate in the local section meetings and other events that provide opportunities for networking. The Maryland Section has a very diverse membership from students to retirees, from academics to industrial to government chemists & scientists. So there are great opportunities to meet new people and learn new things about chemistry.

Call for Volunteers for Committee Positions

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
- Student Affiliates Chair

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

Webmaster Volunteer Needed

The Section is looking for a Webmaster for our website-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, 410- 306-0679) or **Stephanie Watson** (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:

- 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.

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.

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.

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 for more information.



micron inc.
ANALYTICAL SERVICES

MATERIALS CHARACTERIZATION

MORPHOLOGY CHEMISTRY STRUCTURE

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