

# Chesapeake Chemist

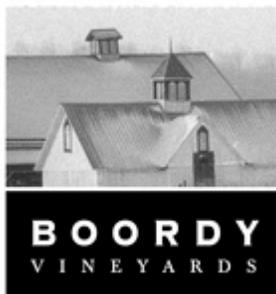
*Maryland Section  
American Chemical  
Society*



## ACS Maryland Local Section June Meeting

**“Science Café Picnic featuring Lisa Baker”**

Thursday, June 23<sup>rd</sup>, 4-8 pm



Boordy Vineyards  
12820 Long Green Pike, Hydes, MD 21082

**2011 Section Officers:**

*Chair 2011* – Takashi Tsukamoto, Johns Hopkins University

*Vice-chair (chair 2012)* – Holly Cymet, Morgan State University

*Chair-elect (chair 2013)* – Sara Narayan, Stevenson University

*Immediate-Past Chair (chair 2010)* – Alvin Kennedy, Morgan State University

*Secretary* – Lance Baird, Johns Hopkins Applied Physics Lab

*Treasurer* – Holly Cymet, Morgan State University

**Councilors:**

2011–2013 Merle I. Eiss, Retired

2011–2013 Paul Smith, University of Maryland, Baltimore County

2009–2011 Stephanie J. Watson, National Institute of Standards and Technology

2009–2011 David Roswell, Loyola College

**Alternate Councilors:**

2009–2011 Shirish Shah, Towson University

2009–2011 Joseph Topping, Towson University

2009–2011 Sandra Young, Army Research Laboratory

**2011 Members-at-large:**

Rose Pesce-Rodriguez, Army Research Laboratory

Mike Zapf, McCormick & Company, Inc.

Suzanne Procell, Army Research Laboratory

Liina Ladon, Towson University

Angela Winstead, Morgan State University

**Award Committee Chairs:**

*Student Awards* – George Farrant, Retired

*Remsen Award* – Dana Ferraris, Johns Hopkins University

*Braude Award* – Louise Hellwig, Morgan State University

*Maryland Chemist Award* – Angela Sherman, College of Notre Dame of Maryland

**Maryland Section on the Web:**

[mdchem.org](http://mdchem.org)

**Webmaster:**

Greg Delahanty, Johns Hopkins University

**Chesapeake Chemist Editor-in-Chief:**

Takashi Tsukamoto, Johns Hopkins University

**Contact us at:**

[contact-us@mdchem.org](mailto:contact-us@mdchem.org)

Join us for good food, wine and a bit of chemistry at the

ACS Maryland Section

*Science Café Picnic*

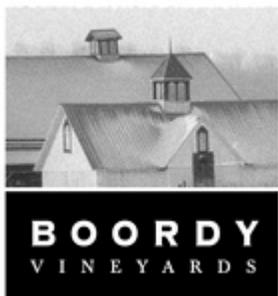
at

Boordy Vineyards

12820 Long Green Pike, Hydes, MD 21082

Thursday, June 23<sup>rd</sup> (Rain date: June 30<sup>th</sup>)

4-8pm



**FREE ENTRY-** Pay only for food and drinks at local vendors

*Music by Juliet Lloyd Duo*

Please RSVP by June 21<sup>st</sup>: [contact-us@mdchem.org](mailto:contact-us@mdchem.org).

**RSVP is highly recommended in case of inclement weather or postponement.**

- ☉ Bring family and friends and gather with us on the grass.
- ☉ Learn fun facts about the chemistry of wine through an informal poster session with guest Lisa Baker then test out some theories with a Boordy's wine tasting.
- ☉ Bring your own gourmet picnic or buy one there.
- ☉ Enjoy live music and wagon rides, too!

**Food and drinks will be available as part of Boordy's "Good Life Thursdays" event:**

- ☉ Boordy wines for sale by the glass, bottle and case.
- ☉ Clementine preparing local burgers, pates, grilled seafood, and organic salads for purchase
- ☉ One Straw Farm selling organic produce and CSA membership
- ☉ Many other local producers selling vegetables, cheese, meat, and more!

**Directions to Boordy Vineyards (12820 Long Green Pike, Hydes, MD 21082)**

From the Baltimore beltway (I-695), take exit 29 for Cromwell Bridge Rd.

Turn left and go 2.9 mi. Bear sharp left onto **Glen Arm Rd.**

Continue 3.2 mi to 4-way stop. Turn left onto **Long Green Pike.**

Follow 2 mi to Boordy's entrance on left.



For more information, visit <http://www.boordy.com/hours-directions>. Click the map on the left for Google Map directions.

## Chemistry at the Vineyard

During the course of her Capstone internship, Lisa completed 300 hours of work at Serpent Ridge Vineyard. In addition, she chose to write her Capstone paper studying the different factors in winemaking for the Maryland climate. The three primary factors are tank material and size, temperature control, and fermentation style. After in-depth investigation, Lisa's recommendations include the use of large stainless steel tanks wrapped in a glycol jacket in order to control temperature. Also, a non-organic winemaking technique is the most efficient and provides for consistent product quality in a climate that is widely variable during the year.

## Speaker Biography



Lisa Baker  
Stevenson University, Class of 2011  
E-mail: [lbaker@stevenson.edu](mailto:lbaker@stevenson.edu)

Lisa Baker received her degree from Stevenson University with a Bachelor of Science degree in Chemistry last month. During her time there, she performed research with Dr. Alex Grushow of Rider University studying the difference in bond lengths and energies of N,N-diethylamine molecules. In addition, she conducted her Capstone internship as a winemaker at Serpent Ridge Vineyard under the direction of Greg Lambrecht. During her internship, she studied various techniques of fermentation and chemical testing of wines. Lisa has decided to pursue her passion for winemaking at the newly established family business of Old Westminster Winery and Vineyard.

# Message from Chair

Dear Local Members,

As you know, our officers and councilors play a major role in various aspects of the Section activities including monthly events, awards, educations, and career development as the face of the American Chemical Society at the grassroots level. Election of willing individuals to each of these positions is vital for providing high-quality services to our Section members. Every year, we hold elections to determine our officers and/or councilors. Unfortunately, due to the difficulty to identify candidates, all of the positions were uncontested last year. We were heavily criticized for not offering a choice and providing members with an opportunity to voice their opinions through elections.

As we prepare for the 2012 Election, I would like to bring this recurring problem of finding officer candidates to your attention. I urge each of you to take a moment to nominate someone that you know or self-nominate to serve as officers or councilors for our Section. You can find descriptions of each position below or on our website, <http://maryland.sites.acs.org/2012elections.htm>. Please take a look and contact us if you would like to submit nominations (including self-nominations) and/or have any questions about particular positions at [contact-us@mdchem.org](mailto:contact-us@mdchem.org).

Sincerely,

Takashi Tsukamoto  
Chair, ACS Maryland Local Section

## **Nominations for 2012 Maryland Local Section Officers/Councilors**

The annual election of Officers and Councilors for the Maryland Local Section will, in accordance with the Bylaws, be conducted by an electronic voting system in the fall of 2011.

Positions within the Section up for elections in 2011 (for 2012 positions) are (# of positions):

Chair-Elect (1), Treasurer (1), Secretary (1), Members at Large (5), Councilors (3), Alternate Councilors (3)

The Chair-Elect term is 3 years: candidate is Chair-Elect for one year, and then moves to Vice-Chair for one year, followed by Chair for the last year. The Chair progression is designed to educate the candidate prior to entering the Chair position. Treasurer term is 2 years. Secretary and members-at-large are 1-year term positions. Councilor and Alternate Councilor terms are 3 years. Duties of Section Officer and Councilor are summarized below. All ACS Maryland Local Section members are now invited to submit nominations for these important positions and self-nomination is acceptable. If you like to submit your nominations (including self-nomination) and/or have any questions about particular positions, please [contact-us@mdchem.org](mailto:contact-us@mdchem.org).

**Deadline for nominations is June 30th, 2011.**

## **Section Officer and Councilor Duties**

### **Chair-Elect**

1. Attend monthly meetings/ events and quarterly Executive Committee meetings and communicate regularly with Vice-Chair and Chair to become familiar with their roles.
2. Succeed to Vice-Chair on January 1 or if Vice-Chair is unable to fulfill his term.

### **Vice-Chair**

1. Act as Program Chair, who is responsible for organizing all monthly meetings (other than award meetings) from January to December. This involves inviting speakers, finding venues (determine audio-

visual needs), making travel arrangements (hotel, etc) and collecting speaker talk title, abstract and bio information (picture) for newsletter. The date and type of meeting in addition to any special budget requirements must be approved by the Executive Committee. Note that speaker honoraria is not permitted based on National rules.

2. Act in place of Chair whenever required and shall assist the Chair in their role, if requested. Succeed to Chair in January or if Chair is unable to fulfill his term.

### **Chair**

1. Attend and preside over all meetings of the Section or arrange the Vice-Chair or Chair-Elect to do so in their absence. There are an average of 10 meetings per year.
2. Call and preside over all meetings of the Executive Committee and prepare meeting agenda, preferably to circulate in advance. Call on committee chairs to report on activities. Call any special meetings as needed.
3. Appoint chair of all standing and special committees and may in some circumstances appoint members to the committee. Serve as ex-officio member of any Section committee.
4. Confer with Award committee chairs in the selection of the awardee and perform such duties as outlined for the Award. Ensure that nomination and selection deadlines are met for all Awards.
5. Cooperate with National officers and endeavor to represent the Section at National meetings. Ensure that the Annual Report of the Section is properly prepared and is submitted to National by deadline.
6. See that current records, correspondence, and pertinent information in their possession is passed on to their successor and that non-current records are archived.
7. Recommend to the Executive Committee special programs/actions necessary to further Section affairs and implement actions with Executive Committee approval.
8. Work closely with Vice-Chair and Chair-Elect, specially in organizing monthly meetings. Provide written thank-you correspondence to speakers and institutions providing meeting facilities, if necessary.

### **Secretary**

1. As principal recording officer, attend monthly meetings of the Section to record any business transacted and to note attendance. Attend to any necessary Section correspondence. Answer any inquiries regarding Section activities and make necessary referrals. Assist as needed in maintaining Section files.
2. Attend quarterly Executive Committee meetings, keep minutes, and prepare a copy for publication in newsletter. Send notices of Executive Committee meetings to its members and include prior meeting minutes.
3. Certify to National by December 1 of each year, the results of the officer elections by providing the names, address, telephone, and email of each new officer that will begin on January 1.
4. In January prepare a list of new Executive Committee, including address, telephone, and email address for distribution to its membership.
5. Maintain Section membership roster (e-roster from National); send any changes to the roster to National.
6. Assist other officers in the completion of the Annual Report of the Section, particularly on the activities of the Section during the preceding year.
7. In the event that a councilor cannot attend a National meeting, certify an alternate councilor to National.

### **Treasurer**

1. As principal financial officer, keep all financial records of the Section. Prepare financial form for the Annual Report of the Section; form will be reviewed by the Section Chair, Secretary, and a Councilor before the deadline from National. Compile and file with the proper authority, Income Tax Form 990-A for the Section by January 10 following the term in office, preserving a copy for Section records.
2. Supply funds to other officers and committee chair with funds to compensate for their budgeted and approved expenses.

3. Attend all meetings of the Section, prepared with checks and change to meet situations to pay, as required for dinners, speakers, or other approved services. Arrange for another section member to perform these duties, if not available to attend.  
Submit a proposed budget with the help of the Finance Committee for the next calendar year to the Section Chair and Secretary by December 31.
4. Write to National Officer of Treasurer requesting payment in full of allotment to the Section by January 1. Note that the Annual Report must be submitted and approved by a Section councilor to be eligible for the allotment. Record and bank all Local Section dues.
5. Prepare treasurer reports for the quarterly Executive Committee meetings.
6. For more detailed information see National's weblink for a Treasurers Handbook ([http://portal.acs.org/portal/PublicWebSite/membership/ls/mngt/volunteerresources/WPCP\\_011475](http://portal.acs.org/portal/PublicWebSite/membership/ls/mngt/volunteerresources/WPCP_011475))

### **Members-At -Large**

1. Serve as members of the Executive Committee and as chair or members of Section committees.
2. Councilor
3. Keep informed of National's activities, insofar as they can relate to the business and interest of the Section.
4. Attend and take active part in sessions of the Council and participate in National committees in various topic areas. Admission to meetings of Council are sent by National electronically or through the mail. Notify an Alternate Councilor should you be unable to attend a National meeting (or perform your duty as Councilor).
5. Ascertain, insofar the views of the Section or Council business of interest to the Section.
6. Report to the Executive Committee on the activities of the Council; reports shall be placed in the newsletter and made at quarterly Executive Committee meetings.

### **Alternate Councilor**

1. Back-up position for councilor; shall keep active in the Section and informed of National activities.

# Recent Activities

## **Dr. Jeremy Berg engaged the audience at the Local Section May meeting** *by Holly Cymet*

The Maryland Section hosted a dinner meeting on May 12th at the Crown Plaza Baltimore Hotel in Timonium. Our guest speaker was Dr. Jeremy M. Berg, Director, National Institute of General Medical Sciences (NIGMS), NIH. Dr. Berg provided some words of encouragement toward the many graduate students in the audience, telling them to think analytically and quantitatively. He also shared the advice he received that helped form his own research path: “make molecules.” An early mentor firmly believed that synthesizing biological molecules and their analogues was a valuable approach for studying more complex systems. Dr. Berg, an organic chemist by training, took this to heart in his pursuit of understanding the form and function of zinc finger proteins.

Dr. Berg went on to reveal some of the inner workings of NIH, one of the premier scientific funding agencies in the world. NIH has a complex infrastructure that includes numerous institutes, each with its own mission to address various aspects of medical research. Dr. Berg explained that NIGMS was authorized in 1962 to ensure funding for projects that did not fall within the missions of other established institutes and also to oversee research that spanned the missions of two or more institutes. NIGMS promotes cutting edge research, much of it in the basic sciences, that lays the foundation for advances in medicine and health care. NIGMS is also a major supporter of research training programs, including M.D.-Ph.D. programs, which produce many of the world’s top researchers. A point of great pride to Dr. Berg was the numerous Nobel Prize awards that have gone to researchers for projects supported by NIGMS.

Dr. Berg highlighted some significant advances with foundations in chemistry that have been achieved through NIGMS funding: the development of STORM , a high resolution molecular imaging technique; the Protein Structure Initiative, which seeks to increase the number of known protein structures; and an application of pharmacogenomics (the differential response of individuals to drugs based on their genetic make-up) to improve the dosing of Warfarin to patients who require this anticoagulant drug. It was a fascinating selection of work, demonstrating the breadth of involvement of NIGMS in today’s medical research.

Dr. Berg, former Professor and Chair of Biophysics and Biophysical Chemistry at Johns Hopkins School of Medicine, will leave NIGMS in July and follow his wife, a leading clinical researcher in breast imaging, to the University of Pittsburgh. As Associate Senior Vice Chancellor of Science Strategy and Planning in the Health Sciences, Dr. Berg will continue his dedication to developing new research program models and advancing scientific research with wide-sweeping impact on medicine and health.



Dr. Jeremy Berg and his former student Dr. Holly Cymet

## **Chemistry Olympiad** *by Mike Zapf*

The Maryland Section has again administered the National Exam for the 43rd International Chemistry Olympiad, in Ankara Turkey in July. Eight of our local students took the 6 hour, 3 part exam, including a 90 minute lab practical at the Knott Science Center at the Notre Dame College in Maryland on Saturday April 16th. Preparations at the college were made by Pat Bell and the exam was proctored by Mike Zapf, and Beatrice Salazar. Excellent performance on the exam qualifies the student to enter the US Training camp in early June for two weeks at the USAF Academy in Colorado. Mr Joe Wan of Wilde Lake HS was selected to attend from among nearly 1000 examinees across the US. His teacher is Gail Schulman. Twenty students are chosen for camp and 4 students are then chosen for the US team as well as four alternates. Our readers may recall that in 2010 the Section had a student who attended camp and was chosen for the Olympic Team and won a silver medal in Tokyo, so we are indeed pleased with Joe Wan making it to camp in 2011.



Aneesh Agrawal  
Bryce Yapps  
James A. Lambert  
Benjamin Charles Germain Lee  
Obinna Ewulum  
Daniel Shinn  
Alex Wang  
Joe Wan

Centennial  
Fallston  
Harford Technical  
McDonogh School  
Owings Mills  
River Hill  
River Hill  
Wilde lake

## **Chemathon** *by Mike Zapf*

The Twenty-seventh Annual Chemathon took place Saturday, April 30, 2011 at the University of MD, College Park. The Chemathon is an annual chemistry competition for high school chemistry students in Maryland, Northern Virginia, and the District of Columbia. The Chemathon is organized by a committee of area high school chemistry teachers and chemists, and is hosted by the Department of Chemistry and Biochemistry at the UMCP. Over 200 students from a total of 38 teams among 24 schools competed in 2011: 20 at Level I and 18 at Level II. The competition includes many activities such as Reactions in Action, Chemical Jeopardy, and Threaded Ions. Visit the web site at: <http://www2.chem.umd.edu/chemathon/> to read about the competition and view pictures of the event. The MD Section provides prizes for the top teams and teachers including Beaker Mugs and Amazon gift cards and has participated at many levels since 1985.

## **Chemistry at Morgan** *by Louise Hellwig*

Ms. Ashley Clouser of Lab Support gave a Resume Workshop at a Chem Club meeting. Since it was the end of the semester, Chem Club held elections of officers for next year, and had an End of Semester "Picnic" (held indoors) at which graduating seniors got Chemistry medallions to wear at graduation. During the semester two teams of Morgan students have been visiting Northwood Elementary School on different days of the week, leading fifth graders in fun experiments. The children expressed interest in visiting Morgan's Chem Department, so in May Northwood's 100 fifth graders were split into four groups, each group visiting for one hour. The elementary students were shown around Dr. Kadir Aslan's research lab, looked through microscopes at various specimens, were treated to a Chemistry Demonstration Show by Dr. Ernest Silversmith, and carried out a paper chromatography experiment (see photo).



# Reports from Travel Grant Awardees

## A Letter from Hood College Travel Grant Recipients

*by Troy Hubbard, Tyler Lee and Jamie Bingaman*

Dear ACS Maryland Local Section Members-

We are three science students from Hood College in Frederick, Maryland who would like to say thank you so much for the travel grant money to attend the ACS annual meeting in Anaheim, California last month. This was the first national conference any of us have ever attended and we are very grateful for the opportunity to attend such a wonderful event. We were honored to be chosen for the travel grant and eagerly looked forward to the conference. Now that we have returned, we can tell you that it was indeed terrific! Not only was this a chance for us to learn more about the science field we hope to pursue as a career, but it was also an exciting opportunity to present our research projects to a wide audience.

While the entire conference was beneficial, there were several aspects that stood out the most for us. We all plan to attend graduate school after completing our studies at Hood, so the grad fair was a top priority. At this event we were able to speak with representatives from a variety of great schools. The grad school discussion panel was particularly informative because it cleared up some misconceptions we had about the application process. This panel was a valuable resource for information about what to look for in a graduate school and what questions to ask, as well as how to select a school, increase the opportunity of being accepted, and have a successful yet enjoyable experience at graduate school.

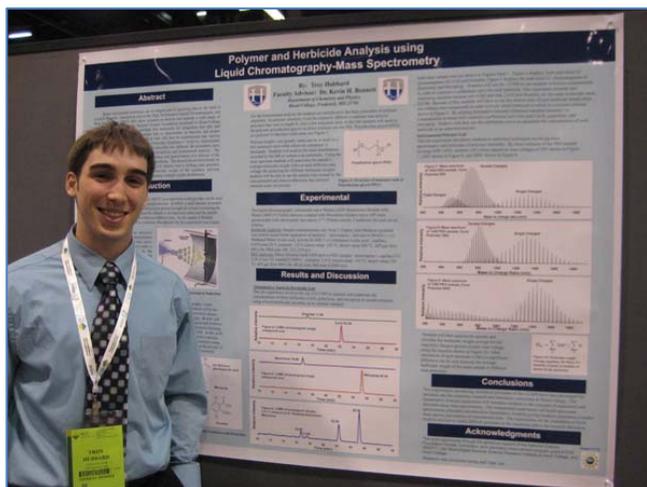
The expo was another of our favorite experiences, allowing us to observe multiple new and emerging technologies. We were particularly impressed with the NMR instrument that was the size of a basketball, because the NMR instrument at Hood that we use for our laboratory experiments is not remotely that compact!

We were also amazed and slightly overwhelmed by the breadth and depth of the presentation topics from multiple chemical disciplines. For instance, we attended an interesting talk by Dr. Virgil Percec. While we are the first to admit that the subject matter was over our heads at times, the lecture let us know that there is still much to learn and even more to be discovered. The wide variety of research presented at the conference has motivated us to really begin thinking about what type of research we, personally, are interested in pursuing in graduate school and beyond.

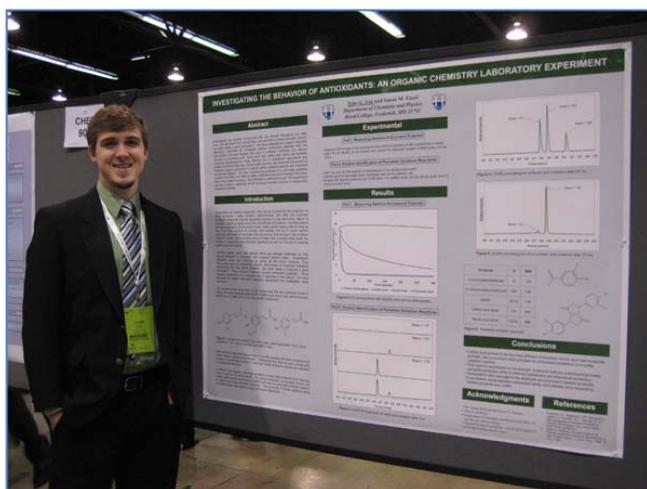
Perhaps one of the best features of the ACS conference was that it afforded us the chance to see chemistry from a number of different perspectives, through events such as the Hollywood Science presentation. Studying science at a small, liberal arts college has provided us with undergraduate research experience, small class sizes, and individual attention from faculty members, but it is through the larger forum of ACS that we can truly see the wider scope of chemistry and the many research and career opportunities open to us. It is this sense of the larger picture that perhaps most impacted us during our time at the conference. (We also need to say that the location was an experience in itself. This was the first time two of us had ever been on a plane, and none of us had been to the West Coast before. An added bonus of the Anaheim location was the chance to visit Disneyland, another experience we will not forget!)

All told, this was a tremendous opportunity for us. It was just truly incredible to see the thousands of people - students, professors, and researchers - all with the same goal of learning more about science. The trip also provided time for us to meet fellow students from many other campuses who performed similar research and collaborate on ideas and advice for the future. We feel very fortunate to have participated in this conference and hope to attend national and regional ACS meetings in the years to come, hopefully while presenting

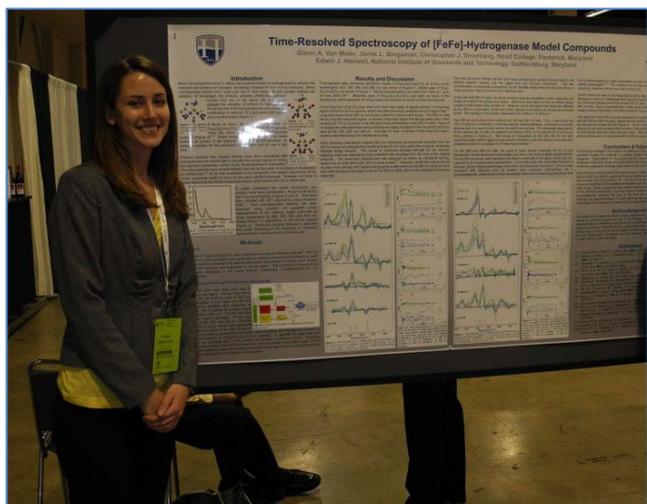
more of our own research. Thank you again for the generous travel grant and the opportunity to attend the ACS meeting. We truly appreciate it.



Troy Hubbard, junior biochemistry major



Tyler Lee, junior biology major



Jamie Bingaman, junior chemistry major

## Reporting from Anaheim: Chemistry Matters at Washington College

by Matthew Streeter and Thomas Gallagher

After getting off the plane in California, I'm not at all ashamed to say that the main thing on my mind wasn't the warm weather or the sunny beaches, but rather, all the chemistry that I was about to immerse myself into. Washington College provided a good number of chemistry talks for the International Year of Chemistry, so I was really excited to not only go to more, but to be able to pick from hundreds! The talks really inspired me to work even harder when I got back to school, so that I would be able to do research like that one day. They also helped me focus in a little more on what I really wanted to do after graduation. The thing that made the biggest impression on me, however, was how closely knit the chemistry community is. At the student poster presentation, people from all over the place came up to us to share stories about their times in graduate school with our professors. It seemed like a big reunion almost. Everyone knew everyone! I'm looking forward to getting to know everyone and being part of this reunion again in the future.



Matthew Streeter and Thomas Gallagher from Washington College

## National ACS Meeting; Anaheim California by Tsehai Grell

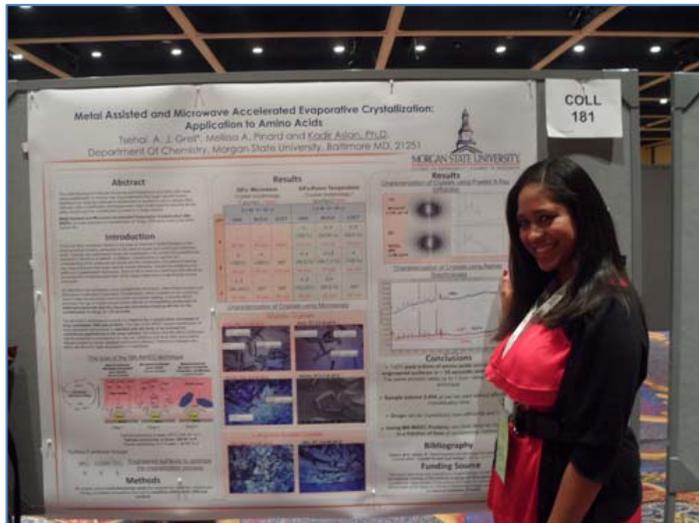
Anaheim California proved a fitting location to host the Spring 2011 National ACS Meeting. On exiting on the John Wayne Airport in Anaheim California, the 80 degree California weather greeted me and the Tall palm trees lining the roads waved warmly at me welcoming me. I already knew that this was going to be an exciting conference. But my excitement increased when I realized the magnitude of the conference. The streets of Anaheim were flooded with participants from all over the globe. This put in perspective (for me) the network that I had become a part of with my membership with ACS and also with my choice in studying chemistry.

The opportunity for students to network with both their peers and also other professionals and academics were made available through the undergraduate schedule of the ACS conference. I gained insight into graduate programs in chemistry disciplines available to me from a variety of different schools. In addition to information about their programs, I met and interacted with Admissions staff of these schools. They provided information regarding the admissions process and requirements for these programs. I received the chance to attend inspiring seminars and workshops put on by accomplished chemist and chemical engineers. These seminars inspired me to delve deeper into my areas of studies and understand what is happen not only on the surface. The seminars gave me an opportunity to see the versatility of a chemistry degree and the limitless opportunities one has in this fields.

On Wednesday 30<sup>th</sup> March 2011, I presented my research in the Colloids and Surface Chemistry Division Poster Presentation. I presented alongside my mentor, Dr. Kadir Aslan, as well as other professors and graduate and undergraduate students. This was my first time presenting with professors and though initially it

was nerve-wracking, I was gained presentation tips from observing and listening to them. This Poster presentation gave me the opportunity to view other cutting edge research in the division of Colloids and Surface Chemistry, as well as to network.

The National ACS conference gave me more than an opportunity to present my research, but also to broaden my vision on the applications of chemistry and chemistry disciplines. My experience was inspiring, enlightening, enjoyable and intriguing.



Tsehai Grell from Morgan State University

## Announcements

### 2011 George L. Braude Award Recipient Selected

The Braude Award honors people who have had significant impacts on teaching and who are collaborating in their research with students and post-doctoral fellows. The award was endowed by and named for George L. Braude, a chemist with W. R. Grace and the Food and Drug Administration. This year, the award goes to Dr. Ryan Casey, Department of Chemistry at Towson University. The George L. Braude Award Lecture will be held in November 2011. Details of the event will appear on the next issue of Chesapeake Chemist.

### Maryland Local Section 50 and 60 Year ACS Members

The following members of the Maryland Local Section have reached 50 and 60 years of ACS membership. The Awardees are invited along with a guest to the local section May Meeting to receive their Certificate at the beginning of the program. It is truly an honor to offer our congratulations and sheer gratitude for such long records of service to the success of the American Chemical Society.

#### 50 Year Members:

George L Brode  
C Parker Ferguson  
Robert Howard Goldsmith  
Edward Koubek  
Richard V Norton  
Leonard H Ponder  
Michael R Rosenthal  
Harris J Silverstone

#### 60 Year Members:

Charles F Bersch  
Harry J Brodie  
Arthur D Coates  
Sigmund R Eckhaus  
Glenn E Fulmer  
Jack Leo Meyer  
Harry Schwartz

## **Building a Robust Workforce in the U.S.**

Last year, ACS past-president, Joe Francisco, appointed a task force charged with ensuring that the U.S. remains the most innovative and entrepreneurial country in the world. The Task Force was headed by George Whitesides, Harvard University. The Task Force had four major recommendations:

--ACS should develop a single organizational unit, offering affordable (or free) help to entrepreneurs. Relevant resources might include information, management expertise, key services and mentors. ACS staff and several ACS governance units are already exploring how this can be implemented.

--ACS should increase its advocacy of policies at the federal and state level to improve the business environment for entrepreneurs and startup companies. The Task Force suggested that ACS should urge reforms within the U.S. Patent and Trademark Office to assure more accurate patents and faster issuance.

--ACS should partner more vigorously with academic institutions and other relevant organizations to promote awareness of career pathways and educational opportunities that involve entrepreneurship.

--ACS should increase public awareness of the value of early-stage entrepreneurship in the chemical enterprise with focused media coverage and information targeted to federal agencies that support chemistry.

The full task force report will be released shortly to members, the public and policymakers.

## **Call for Volunteers – K-12 Educational Outreach**

We know that people have limited time. But taking the time to mentor others, as all of us were once mentored by someone, is a truly fulfilling experience. If you have any questions or are thinking about helping out with a future event, please feel free to contact us at ([contact-us@mdchem.org](mailto:contact-us@mdchem.org)).

## **Plants & People Sundays at the Rawlings Conservatory**

The Howard Peters Rawlings Conservatory & Botanic Gardens in Druid Hill Park runs various programs on Sundays. The 2<sup>nd</sup> (Exploration Station), 3<sup>rd</sup> (Story Hour), and 4<sup>th</sup> (Ask a Scientist) Sundays are programs directed towards K-12 students and often include hands-on science activities.

**Where:** Howard Peters Rawlings Conservatory & Botanic Gardens, 3100 Swan Drive, Baltimore, MD 21217 (by the zoo)

**When:** Almost every Sunday

For more information, visit their website or call (410) 396-0008 for details on the upcoming Sunday program!! ([http://www.baltimorecity.gov/government/recnparks/special\\_facilities.php#Howard](http://www.baltimorecity.gov/government/recnparks/special_facilities.php#Howard))

## **Other Educational Outreach Programs**

With recognition of the decreasing numbers of trained STEM professionals that are US citizens, the general decline of hands-on activities in Science, Technology, Engineering, and watering-down of Mathematics in many K-12 programs, and many people's general lack of understanding of STEM topics in society, the Department of Defense has coordinated many of their programs into single websites that contain a wide-range of educational outreach programs, internships, and scholarship opportunities available for K-12, undergraduate, graduate students and beyond.

Information on the wide-variety of programs through the **US Army Educational Outreach Program (AEOP)** can be found on their website (<http://www.usaeop.com>).

Information on the wide-variety of programs through the **National Defense Education Program (NDEP)** can be found on their website (<http://www.ndep.us>).

Many of the programs/opportunities that are listed on these two sites are available to students for participation in Maryland locations.

### Call for Volunteers for Committee Positions

Interested in how your dues get used and want to work on interesting member programs/projects? If you want to get involved with the Maryland Section Executive Committee and/or with section activities, we want to hear from YOU! The Maryland ACS Executive Committee meets 4 times-a-year to discuss and plan activities. Please feel free to contact any Section officer via e-mail to get more information on various areas/activities that interested you or that the Section should start or expand in the future. The amount of time to commit is up to you (min. 2 hours per month depending on the activity). We are always looking for individuals with budget/financial, editing, and planning skills. In addition, our Section is needs volunteers for our various committees. We are currently looking to fill positions for:

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

Please contact us at [contact-us@mdchem.org](mailto:contact-us@mdchem.org)

### 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 [contact-us@mdchem.org](mailto:contact-us@mdchem.org).

## 2011 Event Schedule

Event	Date	Time	Location
Science Café Picnic	6/23 (Thurs)	4-8 pm	Boordy Vineyards
Fall 2011 ACS National Meeting	8/28 (Sun) – 9/1 (Thu)		Denver
September Meeting (Dr. Michael Kates)	9/14 (Wed)	6:30 pm	Goucher College
Remsen Award Meeting	10/5 (Wed)		Johns Hopkins University
National Chemistry Week	10/16 (Sun) – 22 (Sat)		
Braude Award	November 2011		
Maryland Chemist Award	TBD		

If you have any ideas or suggestions about new events please feel free to contact us at [contact-us@mdchem.org](mailto:contact-us@mdchem.org)

# Job Hunting Corner

## 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 [contact-us@mdchem.org](mailto:contact-us@mdchem.org) for posting in the Chesapeake Chemist. If you are job hunting, remember to put your membership to work by using the ACS job bank: (ACS Careers: [www.acs.org/careers](http://www.acs.org/careers)).

## ACS offers special benefits for unemployed members

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

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

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

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

## 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 [contact-us@mdchem.org](mailto:contact-us@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 ([contact-us@mdchem.org](mailto:contact-us@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 [contact-us@mdchem.org](mailto:contact-us@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.



**micron inc**

ANALYTICAL SERVICES

MATERIALS CHARACTERIZATION  
MORPHOLOGY CHEMISTRY STRUCTURE

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

3815 LANCASTER PIKE, WILMINGTON, DE 19805

Phone: 302-998-1184, Fax: 302-998-1836

E-mail: ([micronanalytical@compuserve.com](mailto:micronanalytical@compuserve.com))

Website: (<http://micronanalytical.com/>)

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