

# Chesapeake Chemist

*Maryland Section  
American Chemical  
Society*



**“Women Chemists Making Bonds:  
The Importance of Mentoring and Networking”**

**~ Judy Cohen ~**

Wednesday, December 7<sup>th</sup>, 6:00 – 8:30 pm

Stevenson University, Stevenson, MD

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[maryland.sites.acs.org](http://maryland.sites.acs.org)

**Webmaster:**

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**Contact us at:**

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**ACS Maryland Local Section**  
**“Women Chemists Making Bonds:**  
**The Importance of Mentoring and Networking”**

~ **Judy Cohen** ~

Wednesday, December 7<sup>th</sup>, 6:00 – 8:30 pm

Stevenson University

Donald B.Ratcliffe Board Room, Knott Hall

1525 Greenspring Valley Road,

Stevenson, MD 21153

6:00 – 6:30 pm	Registration / Networking / Light Refreshments
6:30 – 7:30 pm	Dinner
7:35 – 8:30 pm	“Women Chemists Making Bonds: The Importance of Mentoring and Networking” by Dr. Judy Cohen
Price	\$20 for members/nonmembers, \$10 for students
RSVP (by November 30th)	<a href="mailto:contact-us@mdchem.org">contact-us@mdchem.org</a>

**Directions to Stevenson University (1525 Greenspring Valley Road, Stevenson, MD)**

- From the Baltimore beltway North towards Towson, I-695, follow to exit 21, Park Heights Avenue North. Turn left at the end of the off-ramp.
- Turn right at the second traffic light onto Greenspring Valley Road.
- The university is two miles on the right.
- For detailed directions from other starting points, visit <http://www.stevenson.edu/explore/locations/directions/index.asp>

# “Women Chemists Making Bonds: The Importance of Mentoring and Networking”

## Speaker Biography



Judy Cohen  
Chair, Women Chemists Committee, ACS

Judy graduated from the University of Delaware in 1990 and began her career with Johnson & Johnson in the Chemical Development group of JJPRD where her responsibilities included the scale up of processes to supply Phase I/II studies. After 14 years, she changed career focus, transitioning into a position as a Principal Scientist at the Cordis Corporation, a J&J company in the medical device sector. Judy’s focus at Cordis was the development and characterizations of formulations for drug/device combination products. Judy is currently a Research Fellow at Johnson & Johnson specializing in the solid state characterization of products across all three J&J sectors: pharma, medical device, and consumer. Judy has over 20 publications and 10 patents. She has been recognized for her accomplishments with the Technical Achievement Award in Organic Chemistry from the ORGN division of the American Chemical Society and was elected Fellow of the ACS in 2010.

Judy has been very active in the ACS at both the local and national level. She has been a Councilor for the Philadelphia Local Section since 2008. She has also served on the ORGN division award selection committee for 5 years and organized several award symposia. In 2005, Judy was appointed as an Associate to the National Women Chemists Committee, where she has served as Subcommittee Chair for Local and Regional Outreach. Judy is the current Chair of the WCC whose mission is to attract, retain, promote, and advocate for women in the chemical enterprise.

# Recent Activities

## Team ACS Maryland at the Komen Breast Cancer Walk

Maryland Chemists walked, ran, and raised over two thousand dollars (\$2,117) for the Susan G Komen Breast Cancer support movement on October 23, 2011 in Hunt Valley Maryland. Seventeen people joined the ACS Maryland Team to traverse the various courses which included a one mile family friendly, noncompetitive fun walk, a 5K untimed walk and a 5K competitive run.

ACS Maryland Section team members found the Dora balloon near the start line to meet up before the event, enjoying coffee and bagels on a cool October morning. While watching the thousands of others who showed up for the Komen event, team members talked chemistry, people, breast cancer, kids, and sports. Chemists shared backgrounds and experiences, and a number of chemistry students took the opportunity to ask about different career paths and opportunities.

Team t-shirts were also modeled and admired! A special thanks goes out to Darryl Cunningham, a Morgan State University chemistry student, for designing the breast cancer ribbon-wrapped Erlenmeyer flask bearing the "Chemists working for the cure" team logo. The navy blue shirts with pink print also sported an International Year of Chemistry 2011 logo of her design on the back. Walking and running in our team gear, we displayed our chemist's pride and our support for the Komen Foundation and the tremendous work they do.

There was much camaraderie and spirit in the air as everyone walked or ran their course. Budding chemist Tyler Jenish completed the 5K in an impressive 23 minutes 40 seconds, and Morgan State professor Gerald Rameau was pleased with his time of 27:01.

Thanks to all the race participants and donors who helped us raise funds for this worthy cause! Additional gratitude goes to Megan Shanholtz, Barbara Amann and Paul Smith for their help in organizing the event. T-shirts were funded by an Innovative Projects Grant awarded to the Maryland Section by the national American Chemical Society. **T-shirts are still available**--if you would like one, please contact [holly.cymet@gmail.com](mailto:holly.cymet@gmail.com).

This inaugural ACS Maryland Section event was a tremendous success. It got Maryland ACS members out and active early on a Sunday morning, raised money for an important cause, and was fun. Planning for next year's event has already started: mark down October 28, 2012 for the next Komen Maryland 5K Run/Walk. Until then, get walking to get ready, and don't forget to get your T-shirt!

## UMBC Chapter Pies Professors for PUR

On October 26 we held a Pie-A-Professor event to raise money for Pennies for PUR. We helped out at Science Night with the Maryland section on October 18. We held our own Science Nights at St. Mark's Elementary School on October 27 and Lyndhurst Elementary School on November 17. On November 2, we had a guest speaker from Drexel University speak about the process of applying to graduate school and what to expect when you get there. We sold ACS study guides on November 9 to raise money for Pennies for PUR.



## Stevenson University ACS Club Activity Update

The Student Affiliate ACS Club participated at Stevenson University's Welcome Picnic on Wednesday, August 31. Club members enjoyed making and handing out cupcakes from their "cupcake" periodic table. On November 4, 2011, an overflowing crowd of students and faculty enjoyed the annual chemistry magic show. A magical time was had by all.



## 2011 Braude Award

On Weds. Nov. 2 the Maryland section held the Braude Award dinner meeting at the Berkshire Marriott in Towson. The Braude Award honors a professor with a successful research program who involves undergraduates as researchers. The recipient receives a framed certificate and a check to support his/her research. This year's awardee is Dr. Ryan Casey of Towson University. His focus is in the area of environmental toxicology, and he is a co-founder of the UEBL, Urban Environmental Biogeochemistry Laboratory at Towson State. The title of his presentation was "Salt in Stormwater: Multiple Impacts on Retention Pond Soils". He described the effects of run-off from salted roads in winter on ponds in the Owings Mills area.



# Announcements

## 2012 Executive Committee Election Results

Next year's Executive Committee members have been selected! This year's election brought many interesting and qualified candidates forward through nominations and provided voters with a choice for most of the positions. Thank you to everyone who participated, both as a candidate and as a voter. Look forward to next year's election – most positions have terms of one year, so please consider running next year! You can find descriptions of the positions on our website by [clicking here](#).

### 2012 Executive Committee:

Chair-Elect: James Saunders

Secretary: Louise Hellwig

Treasurer: Angela Sherman

Counselors: Dana Ferraris, Jan Kolakowski, Stephanie Watson

Alternate Counselors: Takashi Tsukamoto, Sandra Young, Charles M. Zapf

Members-at-Large: George Farrant, Lisa Fridman, Suzanne Procell, Beatrice Salazar, Megan Shanholtz

## Undergraduate/Graduate Student Travel Grants from the ACS Maryland Section

Undergraduate/Graduate students can apply to receive up to \$500 for travel and expenses to attend a National ACS Meeting. This is open to members of the ACS who are enrolled full time in a college or university in the Maryland Section. Funding will be allocated to support up to 20 students in 2012.

The application should include:

- The meeting you plan to attend along with location and dates;
- Your ACS membership number;
- An estimated budget (cost for travel, registration, lodging, and meals);
- A 250 word essay describing your motivation for attending the meeting;
- A copy of your abstract and the abstract number ACS gave it when your abstract was accepted;
- A letter of support from your faculty advisor.

Review of applications will begin November 1st for 243rd ACS National Meeting & Exposition (San Diego, California) but will continue until all funds are utilized.

Please state what would be the most convenient way for the check to be made out, in the event you are awarded a travel grant.

Submit this information to Louise Hellwig by e-mail ([Louise.Hellwig@morgan.edu](mailto:Louise.Hellwig@morgan.edu)) or mail your application to: Dr. Louise Hellwig, Morgan State University, Department of Chemistry, 1700 Cold Spring Lane, Baltimore, MD 21251.

If you are awarded a travel grant, the following items need to be submitted after the meeting:

Photocopies of receipts totaling the amount of the award.

Trip report summarizing your experience at the meeting and photos of yourself at your poster at the meeting so we can proudly post them on the section website.

## **2011 Maryland Chemist Award Recipient Selected**

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. This year, the award goes to Dr. Kenneth Karlin, Johns Hopkins University, for his wide-ranging contributions to inorganic chemistry, particularly for his research focusing on coordination chemistry relevant to biological and environmental processes, involving copper or heme (porphyrin-iron) complexes. Dr. Karlin will receive the award early next year.

## **Science Night Activities Needs YOUR Help!**

Over the last two years, we have started helping run Science Night events at some Elementary Schools (ES). These are typically 2-5th graders. It's a great opportunity to interact with students who generally do not have a lot of hands-on science AND their parents. We have 2 planned for this Fall and would like to request MD ACS member help if possible for the second event at:

- Roland Park ES (Baltimore City) – Thursday, December 8th

No prior experience necessary - just plan to bring your enthusiasm for Science! You would receive all the information ahead of time for the 8 experiments and would only help run 1-table with a single experiment at the event with a teacher from the school. We are working with a professor who studies the effectiveness of STEM education on extension activities for the students. If you are interested, please contact MD ACS member Sandra Young via email: ([Sandra.k.young26.civ@mail.mil](mailto:Sandra.k.young26.civ@mail.mil) or [skyschlee@yahoo.com](mailto:skyschlee@yahoo.com)).

## **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).

# 2011-2012 Event Schedule

Event	Date	Time	Location
Women Chemist Program Judy Cohen	12/7 (Wed)	6:00 – 8:30 pm	Stevenson University
Maryland Chemist Award	2/8/2012 (Wed)	TBD	Burkshire in Towson
2012 Student Awards Meeting Ms. Michelle Shearer	4/15/2012 (Sun)	TBD	TBD
MARM 2012	5/31-6/2/2012		UMBC

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

## December Chemical Anniversaries

Leopold May  
The Catholic University of America  
Washington, DC

- December 3, 1886 One hundred and twenty-five years ago on this date, **Karl Manne Georg Siegbahn**, a researcher on x ray spectroscopy, was born. In 1924, he received the [Nobel Prize in Physics](#) for his discoveries and researching the field of X-ray spectroscopy.
- December 6, 1863 One hundred and twenty-five years ago in 1886, **Charles M. Hall** discovered method of extracting aluminum electrolytically from bauxite in his garage as **Paul Louis Toussaint Héroult** discovered the same process for isolating aluminum, which is called the Hall-Heroult process. He was born on this date.
- December 11, 1911 One hundred years ago on this date, **Marja S. Curie** (later **Marie**) gave her Nobel Lecture. Radium and the New Concepts in Chemistry, when she was awarded the [Nobel Prize in Chemistry](#) in recognition of her services to the advancement of chemistry by the discovery of the elements radium and polonium, by the isolation of radium and the study of the nature and compounds of this remarkable element.
- December 13, 1938 Casein fiber was patented on this date.
- December 15, 1863 A. D. Little, Inc. founded as firm for industrial research and control on this date.
- December 17, 1938 Discovery of neutron-induced nuclear fission of uranium (U, 92) was made by **Otto Hahn** and **Fritz Strassmann**, Berlin on this date.

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

# 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.



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