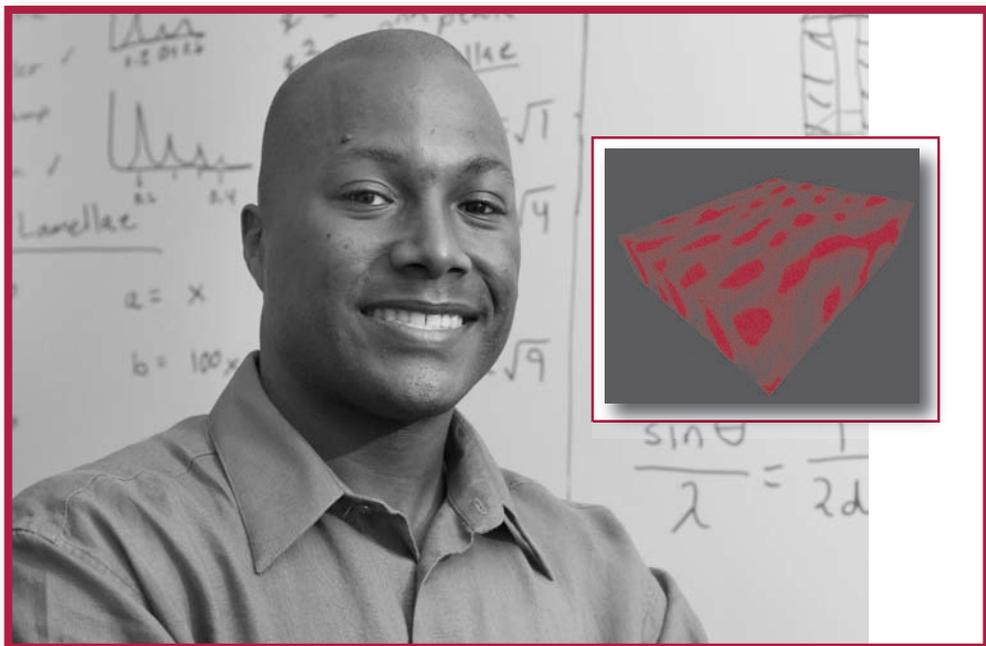


# DEL-CHEM

FEBRUARY 2012

Volume 70/2

# Bulletin



## Using Block Copolymers to Create Conducting Nanomaterials

Professor Thomas H. Epps, III

University of Delaware, Department of Chemical Engineering

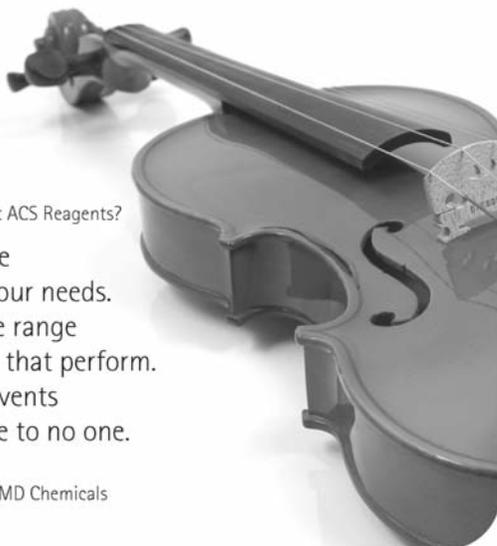
February 23, 2012  
Courtyard by Marriott  
Newark, DE



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## CHAIR’S COLUMN

In keeping with the theme of “Chemistry Close to Home,” our February program will feature Thomas Epps, Assistant Professor of Chemical Engineering at the University of Delaware. Dr. Epps has been described as a ‘rising star’ in polymer science and he is the recipient of a host of awards, including the 2011 Gerard J. Mangone Young Scholars Award presented by the UD Francis Allison Society. His research encompasses chemistry, chemical engineering and materials science. I hope you will join me to learn more about his interesting, multidimensional research.

Believe it or not, while I’m just getting started as Chair, it is nearly time to elect the 2013 officers for the Delaware Section! The election slate must be announced in the April Del-Chem Bulletin, which means that candidates need to be confirmed by the end of February to meet the publication schedule. Our Section needs more members to become involved in governance, either as elected officers or as committee chairs. I plan to resign my position as Chair-Elect for 2012 since I am already serving as Chair. Therefore, we will need to elect the Chair-Elect for the balance of 2012 (Chair in 2013), the Chair-Elect for 2013, the Secretary, two Councilors, two Alternate Councilors, and one Director. If you would like to nominate yourself or a colleague, please send me an e-mail at aemartin1@widener.edu. Don’t forget that the Section’s Procedures Manual which details the job descriptions can be found on our website, at <http://delacs.sites.acs.org/usefulfiles.htm>.

It’s also time to think about Section activities for Chemists Celebrate Earth Day (CCED). Earth Day 2012 is scheduled for April 22, and this year’s theme is “Rethinking Recycling – It’s Easy to Be Green.” While the Carothers Lecture is scheduled for April 3, we can certainly plan an Earth Day event for later in the month. If you are interested in helping with an event, please contact me or Tiffany Hoerter at [thoerter@gmail.com](mailto:thoerter@gmail.com).

The Calendar of Events in this issue and the calendar on the website have been expanded to include other meetings that may be of interest to section members. Did you know that Science Café meetings are held monthly at Stoney’s Pub, 3007 Concord Pike in

*continued on page 10*



## Announcement

Delaware Sustainable Chemistry Summit sponsored by DESCA

The Summit will showcase sustainable chemistry research, development and commercialization

efforts at Delaware universities and companies.

The agenda and speakers will be announced once finalized, but key topics will include water purification and reuse, products and processes employing renewable materials and programs to help nurture and grow the industry. The meeting is scheduled for March 5 at the Delaware Biotechnology Institute in Newark. Watch the Delaware ACS section website,

<http://delacs.sites.acs.org/>, for details when they become available.

## Announcement

The Delaware Section's Carothers Award banquet will be held on April 3, 2012. The awardee is Dr. Donald Tomalia, from the National Dendrimer & Nanotechnology Center at Central Michigan University. Details will be provided in the March issue of the Del-Chem Bulletin.

## Announcement

Society of Natural History of Delaware

The Society of Natural History of Delaware will meet on February 4 at 1 pm at Delaware State University. The speaker will be Dewayne Fox (DSU) on monitoring and tagging sturgeon. Dr. Fox is the principal investigator on a research project tracking the movement of Atlantic sturgeon. At one time, Delaware was the caviar capital of the world, but overharvesting made the fish rare. For more information, contact Al Matlack at [amatlack@udel.edu](mailto:amatlack@udel.edu).

## Announcement

Science Café

The UPenn Laboratory for Research on the Structure of Matter hosts monthly Science Cafés at Stoney's Pub at 3007 Concord Pike in Fairfax at 8 pm. The events are free and open to the public. On February 20, Kelvin Lee from the Department of Chemical Engineering at the University of Delaware will present on "The Future of Alzheimer's Diagnosis and Treatment."

## Announcement

ACS Philadelphia Section Leap Day Networking Event

Wednesday, February 29, 2012

6:00 – 8:00PM

Iron Hill Brewery

1460 Bethlehem Pike (PA Route 309)

North Wales, PA 19454

Come and network with your fellow ACS members as we continue to encourage our members to connect with one another in an informal and easy-going setting. You may be surprised at what you'll discover and how you can help others, too. Please join us! Free to all ACS members from all regions. To register for this event, please visit <http://acsphillycareerservices.eventbrite.com>

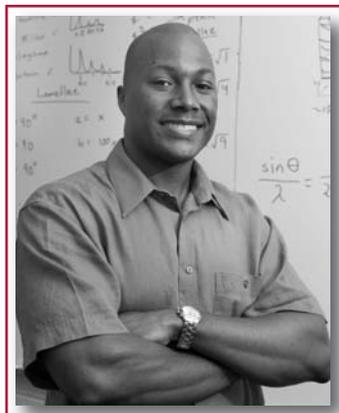
Further information about the event can be obtained by calling Mrs. Libby Harper at the Section Office, (215) 382-1589, or by e-mail at [PhilaACS@aol.com](mailto:PhilaACS@aol.com). Iron Hill Brewery is located at The Shoppes at English Village on Bethlehem Pike (PA Route 309) and is readily accessible from the PA 309/Fort Washington Expressway, the Pennsylvania Turnpike and US 202. Plenty of free parking is available in the shopping center parking lot.

# February Section Meeting of the Delaware Section of ACS

## Using Block Copolymers to Create Conducting Nanomaterials

Prof. Thomas H. Epps, III Assistant Professor, University of Delaware,  
Department of Chemical Engineering

- Date:** February 23, 2012
- Time:** 6:00 pm Social  
6:30 pm Dinner  
7:30 pm Presentation
- Place:** Courtyard by Marriott at the University of Delaware
- Location:** 400 David Hollowell Drive, Newark, DE 19716
- Cost:** \$25 ACS members  
\$30 guests  
\$15 students



### Dinner:

Spring green salad, choice of vegetable lasagna, roasted stuffed chicken, or rosemary pork loin, chocolate torte

Reservation deadline is Monday, Feb. 20, at 5 pm. Reservations not cancelled by that date will be billed.

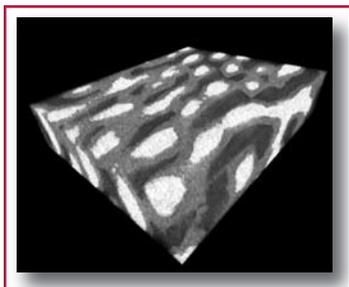
### Methods of registration:

1. Use the link provided on the section website, <http://delacs.sites.acs.org>, or in the Del-Chem Bulletin distribution announcement to register online. Credit cards and PayPal accepted.
2. Email [delawareacs@gmail.com](mailto:delawareacs@gmail.com) to receive the link to online registration.

*Members who are unable to register online should call Andrea Martin at 610-499-4515.*

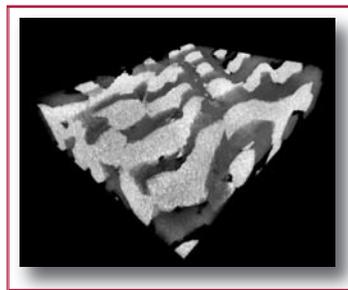
### Abstract:

Soft materials, such as polymers, colloids, surfactants, and liquid crystals, are a technologically important class of matter employed in a variety of applications. One subclass of soft material, block copolymers, provides the opportunity to design materials with attractive chemical and mechanical properties based on the ability to assemble into periodic structures with nanoscale domain spacings. Several applications for block copolymers currently under investigation in my group include battery and fuel cell membranes, analytical separations membranes, nano-tool templates, precursors to electronic arrays, and drug delivery vehicles. One area of recent progress in the group focuses on the behavior of self-assembled polymer systems doped with various salts



*Continued on page 6*

for lithium battery membrane applications. We find that we can tune poly(styrene-*b*-ethylene oxide) diblock copolymer nanostructures by adjusting the lithium counterion as well as the salt concentration. Additionally, we can estimate the effective interaction parameters ( $\chi_{\text{eff}}$ ) for the salt-doped copolymers. These two features allow us to design copolymer systems with increased conductivity and improved mechanical properties in ion transport materials.



**Speaker:**

Dr. Epps is currently an assistant professor in the Department of Chemical Engineering at the University of Delaware (UD), and an affiliated faculty member at the Delaware Biotechnology Institute (DBI). He received his B.S. degree in Chemical Engineering from MIT in 1998 and an M.S. degree in Chemical Engineering from MIT in 1999. He completed his graduate research at the University of Minnesota and received a Ph.D. in Chemical Engineering in 2004; he then joined NIST as a postdoctoral fellow. Dr. Epps joined UD in the summer of 2006.

His research interests include nanostructured assemblies for targeted drug delivery, polymeric materials for bio-separation and ion-conduction membranes, nanostructured soft materials for catalytic applications, and the exploration of surface responsive polymer films using combinatorial methods. Dr. Epps has received several honors and awards including: the UD, Alison Society, Gerard J. Mangone Young Scholars Award (2011); the DuPont Young Professor Grant Award (2010); the Presidential Early Career Award for Scientists and Engineers (PECASE) (2009); the Air Force Young Investigator Award (2008); the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE) Lloyd N. Ferguson Young Scientist Award (2007), a National Science Foundation (NSF) CAREER Award (2007), and an NRC Postdoctoral Fellowship (2004) among others. In addition, he was the panel moderator for the Percy L. Julian Celebration at the National Academy of Sciences (2007). Dr. Epps also is active in the American Chemical Society (ACS Board of Directors Diversity Partner), American Institute of Chemical Engineers, American Physics Society (Polymers Division), and Sigma Xi. At UD, he is a member of the Center for Neutron Science and Center for Molecular and Engineering Thermodynamics. Dr. Epps is co-director of the University of Delaware NSF-REU Site on Energy and Sustainability (2008-2011).

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# ACS Congressional Meetings on Capitol Hill

## *John Gavenonis, Delaware Section Coucilor*



*John Gavenonis thanks Senator Chris Coons for sponsoring the United State Senate Resolution designating 2011 as the International Year of Chemistry*

On October 4-5, 2011, John Gavenonis was in Washington, D.C. for ACS Committee on Chemistry and Public Affairs (CCPA) meetings. During the second day of the meetings, ACS members from CCPA and the Board of Directors visited federal agencies and Congressional offices. At the time, Congress was focused on the deliberations of the Joint Select Committee on Deficit Reduction (“super committee”). Not many other items were on the legislative agenda. The ACS advocacy message was intended both to address budgetary concerns related to the super committee and to provide a road map for job creation following the release of the super committee’s recommendations.

The main concern of the scientific community regarding the super committee was that only a small fraction of the federal budget, discretionary spending, was considered for cuts. Both entitlement spending and defense spending were essentially “off the table” for political reasons. The discretionary spending that remains accounts for only 15%

*continued on page 8*

*continued from page 7*



of the federal budget and includes funding for agencies such as NSF, NIH, NIST, etc. ACS asked legislators to avoid making cuts to the research funding agencies during the super committee deliberations.

The second part of the ACS message focused on the important national priority to reduce unemployment. In 2010, ACS President Joseph Francisco chartered a Task Force on Innovation chaired by Harvard Professor George Whitesides and charged with providing recommendations for how ACS can play a vital role in ensuring the future competitiveness of the United States chemical enterprise. The task force produced a report entitled, "Innovation, Chemistry, and Jobs: Meeting the Challenges of Tomorrow," which can be found on the ACS website (<http://www.acs.org/creatingjobs>). This report placed ACS in an excellent position to be part of the job growth policy conversation following the release of the super committee recommendations.

During the visit to Capitol Hill, John Gavenonis discussed the messages described above with Senator Chris Coons and his senior policy advisor Franz Wuerfmannsdobler, along with Katherine Targett (office of Senator Tom Carper) and Jenny Kane (office of Congressman John Carney). In addition, a key part of the meeting with Senator Coons was thanking him for sponsoring S.Res.283: a resolution designating the year of 2011 as the "International Year of Chemistry," which passed the Senate on September 26 with broad bipartisan support (<http://www.gpo.gov/fdsys/pkg/BILLS112sres283ats/pdf/BILLS-112sres283ats.pdf>). John presented the Senator with an International Year of Chemistry lapel pin, which is visible in the accompanying photograph. Coverage in the November 14, 2011 edition of Chemical & Engineering News can be found at <http://cen.acs.org/articles/89/i46/Congressional-Appreciation.html>.

The Delaware Section Government Affairs Committee thanks Senator Coons, Franz Wuerfmannsdobler, Katherine Targett, and Jenny Kane for taking the time to discuss policy items of importance to ACS.

## S U R P R I S E

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way you could also give credit to our advertisers who financially support us.



## Happy New Year!



*Al Denio*

***The Fe Lady*** – I look forward to seeing this new movie in which Meryl Streep portrays the former British Prime Minister Margaret Thatcher. It has received rave reviews so far. And why, you ask, is this film of interest to a chemist? It is her education as a chemist at Oxford that intrigues me. I am curious to see if the film covers her transition from chemist to politician. Stay tuned.

***Knowledge versus Sports*** – Colleges and universities were created centuries ago to educate the ruling class, to provide leaders of government and other organizations and to promote science and the arts. Then it was realized that bringing large numbers of young people together on campuses led to testosterone fueled problems such as panty raids and worse. This led to the creation of sports teams with the hope that intense competition would somehow reduce sex and alcohol problems on campus due to a refocus of energy.

Now it appears that a “sports monster” has been created. Some universities have built football stadiums that seat over 100,000 fans. And since winning is “everything,” large sums of money are paid to coaches who produce winning teams. On January 1, the News Journal reprinted an article from USA Today by Steve Wieberg with the title “Universities reassess reach of iconic coaches.”

You may recall the fiasco at Ohio State University where football coach Tressel was fired after trying to cover up a scandal. His compensation was far greater than the OSU president Gordon Gee who earned \$1.3 million, the highest paid public university president. He joked that Tressel might fire him!

The top ten football coaches compensation for 2011 ranged from \$5,193,500 (Mack Brown, Texas) to \$2,939,800 (Mark Richt,

Georgia). For basketball, the range was from \$7,531,378 (Rick Pitino, Louisville) to \$2,200,000 (Rick Barnes, Texas). What message do we get from these numbers? Perhaps we realize that academic pursuits are of much lower value than sports!

And how about campus power and influence? Does a chemistry prof dare to flunk a star player? Actually, that scenario is often avoided by counseling such athletes to avoid places like “hard science” departments. Coaches have been known to provide student advisors who carefully choose academic courses and sympathetic faculty to keep weak student athletes eligible.

Since I have identified a problem, I need to offer a solution. “Why not cap coaches’ compensation level at the average compensation of the chem department faculty? And let’s eliminate football bowl games and basketball’s “March Madness” so that scholar athletes have more time to spend in the library.

***Age and Creativity*** – This is the title of an article by Bethany Halford in the December 5 issue of C&E News. The article is based on a study by economists B.F. Jones at Northwestern University and B.A. Weinberg at Ohio State University that examined the ages of Nobel Prize winners when they did the work which won them the prize. The authors looked at the prizes awarded during twenty-year intervals starting at 1901. They then looked at four age ranges: under 30, 31 to 40, 41 to 50 and over 51. Their bar graph on page 39 suggests that at the start of their study, ages 31 to 40 seemed like the most creative years. Over the past fifty years, creativity shifted to the 41 to 50-age range.

The data also suggests that creativity drops above age 51 so that a geezer such as I should concentrate on drinking coffee and beer.

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Happy New Year! *continued from page 9*

**Delaware Academy of Chemical Sciences –**

You may recall that our group held a luncheon several years ago to honor three Legends of DuPont's Textile Fibers Department, Dr. Russ Peterson, Stephanie Kwolek and Joe Labovsky. In 2011, Russ went to that Big Chem Lab in the Sky at age 93. After a very successful DuPont career, then four years as Governor, he moved on to several positions defending the environment at the state, national and international level.

Martha Hollomon and I visited Stephanie Kwolek at her home in Sharpley in December with a Christmas floral arrangement. She was honored in September with a very nice plaque from the American Textile History

Museum in Lowell, Massachusetts in recognition of her Kevlar work.

Mike Stemmiski and I attended Joe Labovsky's 99th birthday party in September at Forwood Manor. We visit him on a regular basis – I call this my history lesson. His mind is sharp and his sense of humor is keen. Since Joe came from the Ukraine, he prefers vodka to Geritol.

The DACS is hoping to open a storefront Chemistry Museum/Outreach Center this year in Wilmington. This will require expanding our membership so we hope that you will join us. Call me at (302) 455-0389 or send an email: [alvaldenio@aol.com](mailto:alvaldenio@aol.com)

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**CHAIR'S COLUMN** *continued from page 3*

Fairfax? These are organized by the Laboratory for Research on the Structure of Matter (LRSM) at UPenn, and details may be found at the following website: <http://www.lrs.m.upenn.edu/events/sciencecafes/>. The next two Café nights are February 20 (Kelvin Lee, Department of Chemical Engineering at the University of Delaware, "The Future of Alzheimer's Diagnosis and Treatment") and March 5 (Daeyeon Lee, Department of Chemical Engineering at the University of Pennsylvania, "Beers, Bubbles, and Beyond") These events are free and open to the public, and no purchase is required. Please also note the upcoming meeting of the Society of Natural History of Delaware and the Leap Day gathering of the Philadelphia Section of the ACS, both mentioned elsewhere in this issue. The Delaware Sustainable Chemistry Alliance (DESCA) will be holding a meeting this month, but details were not available in time for publication of the Bulletin. Please watch our website for more information. There are numerous programs at the Chemical Heritage Foundation in Philadelphia. In addition to the monthly Priestly Society meetings, they hold weekly brown bag luncheons on a variety of topics on Tuesdays from noon to 1 pm. They also sponsor Science on Tap, meeting the second Monday of the month at National Mechanics Bar, 22 S. Third Street in Philadelphia. More information on their events can be found on their website, [www.chemheritage.org](http://www.chemheritage.org). The CHF is just a short drive from I-95, and they provide parking validation so you can park very inexpensively at the Bourse. If you know of other events that may be of interest to our members, please let me know so they can be added to the calendars!

Lastly, the Delaware Section is planning to participate in the annual MARM "Chemagination" contest for 2012. Please see the announcement elsewhere in the Bulletin, and share the information with your children's teachers. High school students are asked to design a cover and write a cover story for an imagined issue of ChemMatters 25 years in the future in the areas of Alternative Energy Sources, the Environment, Medicine/Healthcare, and New Materials. I am excited to see what our students envision! If you are interested in helping to organize the local contest and/or judge the entries, please let me know.

Please take advantage of the many activities your Section has to offer! I hope to see you at an event soon –

Best regards,

*Andi Martin*

# CHEMAGINATION DESCRIPTION AND RULES

## MARM 2012

The 2012 Regional Chemagination Contest will be held at the Middle Atlantic Regional Meeting of the American Chemical Society (MARM) on Saturday, June 2, 2012. The competition will take place on the campus of the University of Maryland, Baltimore Campus (UMBC), Baltimore MD. Shirish Shah and Louise Lawter are the MARM 2012 Chemagination Co-Chairs. The 2012 MARM is being sponsored by the Maryland Section of the ACS (more information can be found at [marmacs.org](http://marmacs.org)).

In addition to using and adding to their knowledge of science and chemistry, students can improve their creative, teamwork and public speaking skills. Such skills will serve them well in their future careers. Students that have participated in past contests had fun and appreciated the opportunity to meet students from other schools and talk to university and industry scientists.

### CONTEST OVERVIEW

High school students are asked to imagine that they are living 25 years in the future and have been invited to write an article for ChemMatters, a magazine for high school students that focuses on the role of chemistry in everyday life. The subject of the article is: "Describe a recent breakthrough or innovation in chemistry (and/or its applications) that has improved the quality of people's lives today." To view a sample ChemMatters magazine visit the national ACS website, [acs.org](http://acs.org), and look under Education.

In addition to the article, students are asked to design a cover for the magazine. The article must be written as if the student is living in the year 2037, looking back at innovations that have occurred since 2012. The innovation must fall into one of the following categories:

- \* Alternative Energy Sources
- \* Environment
- \* Medicine/Healthcare
- \* New Materials

A few examples of areas where development is expected are: nanometer-scale systems, energy efficiency, pollution prevention, green chemistry, sustainability, intelligent devices for sensing, proteomics, climate models, biopharmaceutical therapies, medical devices and/or implants and new energy sources.

Evaluation of the entry is based upon:

- (1) the written article which is submitted in advance, and
- (2) the presentation of the innovation on a self-standing display and interviews with judges (much like science fair judging).

### RULES

ARTICLES must:

- be written by a team of two or three students; each student may be on only one team.
- be no more than 1000 words (figure captions are not included in the limit).
- present the chemistry/scientific concepts/ideas/principles behind the innovation.
- describe the innovation and indicate how it has improved people's lives.

*continued on page 12*

*continued from page 11*

- present a “history” of the changes that had to occur in 25 years to develop this innovation.
- include drawings, diagrams, illustrations and descriptions of the chemistry and any technology involved in all key aspects of the innovation.
- cite a minimum of three technical references.
- include a cover design for the magazine. The cover design can be an original computer graphic or a free-hand drawing.

### **DISPLAYS MUST**

- be 24” deep, 40” wide and 48” tall or less, and be able to sit on a table, much like at a science fair.
- include the cover of the magazine.
- be a visual representation of the article’s content with a minimum of text.
- include a list of references cited.

### **ATTENDANCE**

- At least one member of the team must attend the contest to present the display and interview with the judges to be eligible for prizes.

### **SCORING**

- Winners are selected by the judges based on the two scores the students have received (one for the article and one for the interview/poster).
- Criteria for scoring include scientific thought, creativity, clarity, thoroughness and teamwork.

### **ELIGIBILITY/REQUIREMENTS**

- Each local section can submit up to four entries (1 per category).
- All students must be currently enrolled in an accredited high school or home school and be taking or have recently completed a grades 9-12 science class.
- Students and their parents are responsible for transportation to and from the meeting site.
- Sections must notify the contest coordinators in writing of their intent to participate in MARM Chemagination by January 6, 2012 and remain in communication with the Chemagination Co-Chairs during the time leading up to the contest.
- All entries become the property of the ACS and will not be acknowledged or returned.
- The ACS, its agents and contractors, are not responsible for lost, late, misdirected, or postage-due entries.
- Acceptance of the prize constitutes consent to use the winners’ names, likenesses, and entries for editorial, advertising, and publicity purposes.
- Prizes are not transferable.
- Taxes, if any, are the sole responsibility of the winner.
- Participants will be asked to provide a Photo Release Form signed by a parent or guardian prior to attending the contest.

# Minutes of the Executive Committee Meeting Delaware Section of the American Chemical Society

Thursday, December 8, 2011, Golden Palace Restaurant, Newark, DE

*Chair Kate Opper called the meeting to order at 7:03 pm.*

## **Secretary's Report:**

Andrea Martin reported that she plans to meet with Julie Brady before Christmas to transfer Secretary's files. She received an e-mail from a member complaining about late delivery of Del-Chem Bulletin and asking to be removed from mailing list. Both Andrea and Sheree Gold responded to the member about the mailing process and suggesting use of the e-mail notification system for electronic viewing. The list of 2012 officers was sent to ACS in advance of the Dec. 1 deadline. The list of committee chairs needs to be provided in January.

## **Treasurer's Report:**

Xiaoli Wang was unable to attend the meeting and provided the October and November treasurer's reports electronically. Allison Moore made a motion, seconded by Norm Henry, to approve the reports subject to audit. The motion passed unanimously.

## **Chair's Report:**

Kate Opper reported that the Section received a letter from National ACS thanking us for participating in the National Chemistry Exams. For 2012, the Section will again give the exam, which is limited to 12 students, no more than two per school, who are nominated by their teachers. Kathy Melvin will pass the information along to the state high school science teachers. This test will be given at St. Mark's High School on April 19, 2012. Additional information is available from Marge Christoph. In addition to the national test, the state exam will be given on a date to be determined. The results of this exam determine the Delaware ACS high school student awards in the spring. A process should be developed for solicitation of the high school teacher of the year awards.

Kate also thanked the Executive Committee for their help with the November section meeting, which featured the Delaware Section Award to Barbara Larsen of DuPont in addition to other award presentations.

Finally, Kate reminded members that she will be working on the annual report which is due to National ACS early in 2012.

## **Chair-Elect's Report:**

Andrea Martin reported that she has registered for the ACS Leadership Workshop in Texas in January. Most of her travel expenses should be covered by a grant from ACS.

The Del-Chem Bulletin for Jan. has been sent to Sheree Gold. In the Chair's column, Andrea listed the following goals:

- 1) Feature local chemistry in section meetings and encourage participation by more students, teachers, and faculty
- 2) Reinvigorate the committee structure and bring new members into governance; review policies and procedures and consider updates to by-laws
- 3) Begin a process to nominate the maximum number of section members as ACS Fellows each year.

The Jan. 25 section meeting will be a luncheon presentation by the Delaware Sustainable Chemistry Alliance. It will be held at DuPont Country Club.

Andrea is in the process of developing a spreadsheet with contact information and room rates for potential meeting locations in the area. She surveyed the Executive Committee regarding meeting dates. It does not appear possible to have a regular meeting date for the ExComm without excluding a number of members.

The student/industry poster session will be held again in 2012 at the University of Delaware. Doug Taber is looking into potential dates in April.

Andrea has made contact with the Ulliyot lecture committee and will be participating in the selection of the Ulliyot scholarship awardee and Ulliyot lecturer.

Xiaoli Wang has provided the Excel spreadsheets for the 2010 and 2011 (to date) books.

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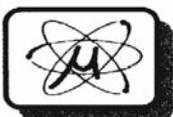
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Andrea will be working on the budget and the rest of the programming for 2012 over the holiday. She plans to meet with Xiaoli and Mary Jo to facilitate transfer of the Treasurer's books and change the signatures on file with the bank.

The Section has been invited to participate in the 2012 Regional Chemagination Contest as part of MARM 2012. Andrea will forward the announcement to the Executive Committee. A commitment is requested by early January for this contest, which requires students to imagine a cover story and create the cover artwork for an issue of ChemMatters 25 years in the future. Local section winners would be invited to compete at MARM on Saturday, June 2, at UMBC in Baltimore, MD.

Andrea reminded the Executive Committee that the election slate will need to be finalized in February for the April election issue of the Del-Chem Bulletin.

### **Past-Chair's Report:**

No report

### **Other Business / New Business:**

Norm Henry reported that nominations have been received for the next Delaware Section Award. He received confirmation from Wilkes College for the donation to the Mary Kaiser Scholarship Fund made in lieu of the Delaware Section Award to Barbara Larsen. He has communicated with John Burmeister at the University of Delaware regarding the process for the college student award.

Allison Moore reported for the Carothers Committee. The 2012 awardee is Dr. Donald Tomalia, and the meeting date is set for April 3, 2012. A short announcement will be placed in the February Del-Chem Bulletin, with a cover and complete meeting announcement in the March issue. Andrea will prepare the programs to hand out at the event.

Maggie Schooler reported that the National Chemistry Week event at Independence School was a great success, with an estimated 350 children in attendance. Many Girl Scouts and Boy Scouts were in attendance. Maggie has provided an article and photos for the January Del-Chem Bulletin. Surveys from participants were positive. The Section is grateful to Chris Avery, from the office of US Senator Chris Coons, who spent the afternoon with us. The Executive Committee thanked Maggie for stepping up to chair this event. Maggie and Kate agreed to work together on the 2013 event.

John Gavenonis reported for the Government Affairs Committee. In early October, he went to Washington for the National ACS Committee on Chemistry and Public Affairs meeting. He was received warmly at the offices of US Senators Coons and Carper. A photo with Sen. Coons was published in Chemical & Engineering News on Nov. 14. John anticipates scheduling meetings locally with Delaware's federal elected officials in February during the President's Day recess, as has been done for a number of years.

Al Denio reported that the Delaware Academy of Chemical Sciences is planning a Science Café in February on the subject of "What's Gotten into Us". This book, subtitled "Staying Healthy in a Toxic World," is authored by McKay Jenkins, an English and journalism professor at the University of Delaware. Details will be forthcoming.

The next Executive Committee meeting will be held over dinner on Thursday, Jan. 12. The location will be announced.

### **Officers and Councilors Present:**

Allen Denio, Norman Henry, Andrea Martin, Allison Moore, Kate Opper, Maggie Schooler, Lois Weyer, John Gavenonis,

### **Officers and Councilors Absent:**

Marge Christoph, Tiffany Hoerter, Jeff Moore, Hongli Wang, Jade Duan, Martha Holomon, Eric Holowka, Sri Kidambi, Nora Radu, Xiaoli Wang

### **Others Present:**

Julie Brady (Secretary-elect)

The meeting was adjourned at 7:55 pm

Respectfully submitted,

*Andi Martin*

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## CALENDAR OF EVENTS

### **February**

- 4 Society of Natural History of Delaware
- 9 Chemical Heritage Foundation Priestly Society luncheon
- 9 Executive Committee meeting
- 20 Science Café at Stoney's Pub
- 23 Delaware Section ACS meeting
- 29 Leap Day Networking Event – Philadelphia Section ACS  
(no ChemVets meeting in February)

### **March**

- 5 DESCA Sustainability Chemistry Summit
- 5 Science Café at Stoney's Pub
- 8 Chemical Heritage Foundation Priestly Society luncheon
- 20 ChemVets meeting

### **April**

- 3 Carothers Award Banquet