50 AND 60 YEAR ACS MEMBER RECOGNITION

Saturday, September 26, 2015

11:30 am to 1:00 pm
DoubleTree by Hilton
4727 Concord Pike
Wilmington, DE 19803

For information on section activities visit our web site at:
www.delawareacs.org
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50 and 60 Year ACS Member Recognition

Our section members who have held membership in ACS for 50 and 60 years are recognized annually. DE-ACS would like to express our sincere appreciation for your continued service and support.

Congratulations to our 50 and 60 year members for 2015!

Date: Saturday, September 26th, 2015
Time: 11:30 - 1:00 pm
Location: Doubletree by Hilton, 4727 Concord Pike, Wilmington, DE 19803
Lunch will be provided.
Please register so that we can have enough food.

Registration:
1. Use the link provided on the section website, http://delacs.sites.org to register online.
2. E-mail delawareacs@gmail.com to receive a link to online registration
3. Members who are unable to register online should call Justin Chan at 302-695-3514
CHAIR’S COLUMN

Hello Everyone,

I hope all of you had a wonderful and relaxing summer.

In September, we will be honoring the 50 and 60 year ACS Members with a celebration lunch at the Doubletree Hilton Hotel in Wilmington. We have a lunch banquet planned for September 26th. There is more information about the celebration in the issue. Please plan to attend to celebrate this outstanding achievement.

April & May Events:
In April, George Lahm was presented the Carothers Award for his outstanding contributions to chemistry and crop protection. A banquet was held in his honor at the DuPont Country Club to celebrate his achievements. He presented an excellent and inspiring narrative about his research in the field of crop protection. We would like to thank the attendees and sponsors of the event.

Election Results:
The results of our elections are highlighted in this issue. This was the first time that a fully electronic ballot was used. There was an increase in voter participation by ~20%. The elected committee members are listed within this issue. Thank you very much to those who were nominated for each position and Congratulations to those who were elected!

If you or someone you know may be interested in running for office for 2016, please email delawareacs@gmail.com

2015 Delaware Section of the ACS Chair,
Justin Chan
Join us as we bid farewell to our Books of Secrets exhibit with a program that goes past what’s on the page and straight to what’s hanging on the wall.

The craft of restoring centuries-old artwork brings together the fields of art history, chemistry, archaeology, and studio art to solve complex and fascinating mysteries. This evening get the inside track on that process with art conservator Mark Bockrath as he talks about the work done on the pieces in Books of Secrets. Bockrath will show you the astonishing before and after photos and explain the different treatments used to bring the artwork back to life. Then dive into historical materials and techniques with Kristin DeGhetaldi, doctoral student in art conservation at the University of Delaware. Make your own egg tempera paint or crush cochineal bugs to create lake pigment paint, and leave your final thoughts about Books of Secrets on our special canvas.

Talks will take place at 5:30 p.m. and 6:45 p.m., with hands-on activities to follow.

This event is presented in conjunction with Books of Secrets: Writing and Reading Alchemy, open through September 4, 2015.

About the Speakers:
Mark F. Bockrath is paintings conservator for Barbara A. Buckley and Associates Painting Conservation, a private conservation firm in West Chester, Pennsylvania. Bockrath graduated from the University of Delaware in 1978 with an interdisciplinary BA degree in art history/chemistry. He earned an MS degree in art conservation from the Winterthur/ University of Delaware Program in Art Conservation in 1981. He has worked as a paintings conservator at the Interмуseum Laboratory in Oberlin, Ohio; the Washington Conservation Studio in Kensington, Maryland; the Pennsylvania Academy of the Fine Arts; and Winterthur Museum. His research and publications include studies of the painting methods of Thomas Eakins, Horace Pippin, and Maxfield Parrish, and the history of American picture frames.

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First Friday continued from page 4

Kristin DeGhetaldi is a doctoral student in art conservation at the University of Delaware and a 2015 CHF Fellow. Her current research project is entitled “Analytical Methods Used to Explore the Evolution from Egg to Oil Paints in Quattrocento Italy.”

About First Fridays:
Spark your curiosity while exploring the exhibits after hours! First Fridays bring together a lively lineup of guest speakers and hands-on activities covering everyday science, historical oddities, and everything in between. Grab your friends, and kick off an evening of discovery, surprise, and a little nerdy fun.

First Fridays at CHF are always free and open to the public; no registration required. For more information about our First Friday programs, contact Alexis Jeffcoat at 215.873.8293 or ajeffcoat@chemheritage.org.

Joseph Priestley Society: David DeVore, “It Pays to Be Tacky: Lessons Learned in Growing a Small Specialty Chemical Company”

Date: September 10, 2015
Time: 11:30 a.m.–2:00 p.m.
Location: CHF
315 Chestnut Street
Philadelphia, PA 19106
Fee: $25
Registration: Required (https://www.chemheritage.org/secure/register-for-an-event

A talk by David DeVore
This month’s Joseph Priestley Society program features a keynote address by David DeVore, president, Functional Products, Inc. DeVore will share his experiences creating a specialty lubricant additive company focusing on polymers.
For more information about the Joseph Priestly Society, please visit the CHF website at chemheritage.org.
ChemVets Meeting

“The Modern Analytical Lab: Advanced instrumentation at the disposal of Analytical Scientist today”

Gerald Poirier
University of Delaware; Manager Advanced Material Characterization Lab

Date: September 16, 2015
Time: Noon –2:00 p.m.
Location: DuPont, Chestnut Run Laboratories
12:00 Lunch (Admin. Bldg.)
1:00 Lecture (Bldg. 713 auditorium)
Event Type: Open to the Public
Fee: None
Registration: Not Required

Abstract:
This talk will focus on the recent advances in Analytical lab techniques. Advancements of materials research have profound direct impacts on developments in analytical chemistry and may hold the key to improvement of existing or new techniques at present times and near future. Just when we think we have reached the limit of our instrumentation, new technologies push the envelope even further. In this talk I will discuss the recent improvements in conventional techniques as well as unconventional techniques being used in Advance Analytical Labs today.

Biography:
Gerald Poirier lives in Delaware and is married with three children. He attended the University of Delaware where he studied Electrical Engineering and Physics. He served 6 years in the Nuclear Submarine Navy, Woods Hole Oceanographic Institute / Naval Underwater Systems Center and studied acoustics onboard nuclear submarines.

Poirier worked as a Senior Research Technician at the Department of Physics and Astronomy at the University of Delaware from 1988 until 2008. He designed and built unique high energy cosmic ray detection experiment at the South Pole and North Pole. He has traveled to the North Pole eight times and the South Pole three times. Poirier is a veteran of numerous high altitude balloon campaigns in Northern Canada and was awarded the congressional Antarctic Service Medal.

Gerald Poirier was the manager of the Imaging and Analysis center at Princeton University, Center for Complex Material and the Princeton Institute for the Science and Technology of Material from 2007 to 2014 before returning to the University of Delaware in 2014. He is currently the Manager of the Advanced Material Characterization Lab at the University of Delaware’s Interdisciplinary Science and Engineering lab. He has published more than 20 papers and his research and microscopy work has been on the cover of Nature twice.

Poirier is also the President and Director of Delaware Science Olympiad and a member of the board of Directors of the National Science Olympiad organization, and the board of Delaware Teachers of Science. He serves on the State of Delaware Governors board, “Authority on Radiation Safety”.

6 DEL-CHEM BULLETIN – JANUARY 2013
The Joe Labovsky Nylon Exhibit—
Before he moved to Forward Manor he donated the nylon museum in his basement to the Delaware Academy of Chemical Sciences. We agreed to help continue telling the story of Wallace Carothers and the invention of nylon-66 at duPont’s Experimental Station in 1935. Joe was the last surviving member of the Carothers Group. He died in 2013.

Mike Stemniski and I have assembled a Nylon Exhibit at the University of Delaware in the Department of Chemistry and Biochemistry. The opening reception will be on Friday, September 25 from 3-5pm.

Please come to the front entrance of Brown Laboratory on the University Green, just east of Memorial Hall. You can park in the U.D. lot on South College Avenue, across from the Morris Library. Another option is the U.D. Parking Garage adjacent to the Trabant Center. Parking costs $2/hour. If you need directions, contact me at alvaldenio@verizon.net.

Refreshments will be served in LDL 201 (Lammot DuPont Laboratory). We hope to see you there.

Former Delaware Section Chair Dr Bhatia—
Some of you may recall Sujata from several years ago. After earning both PhD and MD degrees, she joined duPont. Then she joined the faculty at Harvard University where she is Assistant Director for Undergraduate Studies in Biomedical Engineering. Sujata was voted Class of 2014 Favorite Professor. She was again elected Favorite Professor this year!

Dr. Bhatia returned to the UD campus on May 29 to give the Distinguished Alumnus Address to the grads of the Department of Biological Sciences. I was delighted to attend and hear her words of wisdom.

Professor Cecil Dybowski—
This U.D. Physical Chemist has been awarded the prestigious Francis Alison Award by the University in recognition of his many contributions in teaching, research and service to the University and mankind. This is the highest honor the University confers on its faculty.

He joined the Department of Chemistry and Biochemistry in 1976 after a Postdoc at Cal Tech. This native Texan finished his BS and PhD at the University of Texas in Austin. Cecil has been a pioneer in the field of solid state NMR spectroscopy.

Cecil was active in our Delaware Section as a young Assistant Professor. That is how he met the late Dr. Mary Kaiser whom he married in 1979. Mary was an Analytical Chemist who had a very successful career at duPont. They were both active in the Eastern Analytical Symposium where Cecil continues in a leadership roll. Their daughter is now an attorney in Delaware.

The Francis Alison Award has been awarded to two other chemists over the past thirty years – Roberta Colman received it in 1985, followed by Burnaby Munson in 1992. One of the perks of winning is that you get to deliver the Alison Lecture, which he will do on October 26 at 4pm in the Gore Recital Hall of the Roselle Center for the Arts on the campus. His talk is entitled “Magnetic Resonance and Materials Chemistry.” This is free and open to the public.

I first met Cecil when I spent the 1978-79 academic year here as a Visiting Professor. He was my first exposure to a “real Texan.” I gained a new appreciation for his culinary gifts when introduced to his Texas Chili recipe, a weekly treat in his research group. I also learned that he is a “closet musician” who plays the piano, guitar and saxophone. Trust me, chemistry is only one of his many talents!

I hope to see you on September 25 at the Nylon Exhibit Opening.
On June 19, Tiffany Hoerter and John Gavenonis of the Delaware Section of the American Chemical Society met with United States Senator Thomas R. Carper and Staff Assistant Matthew Marshall in the Senator’s Wilmington office. The purpose of the meeting was to discuss three key issues: TSCA reform, a permanent R&D tax credit, and budget control caps.

The Toxic Substances Control Act of 1976 was passed by Congress nearly 40 years ago and has not been updated since then. In the intervening years, stakeholders from both the industrial and environmental community have advocated for reform without success. This lack of progress has led individual states, most notably California, to develop their own regulations, creating a nationwide patchwork of different regulations that make new product development and commercialization difficult for industry.

The 114th Congress has bills addressing TSCA reform progressing through both the House and Senate. H.R.2576 TSCA Modernization Act of 2015 was reported out of the House Energy and Commerce Committee on June 3 and is awaiting further action. S.697 Frank R. Lautenberg Chemical Safety for the 21st Century Act was cosponsored by Senator Carper.

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in the Senate. In addition, Senator Carper was 1 of 4 Democrats who supported the legislation in the 15-5 vote to move it out of the Environment and Publics Works Committee (EPW). Democratic opposition in EPW was driven largely by Senator Barbara Boxer (D-DE), who is arguing for greater protections for existing California regulations. Senator Carper believes that this California-led coalition will not mobilize sufficient support to derail this legislation in the Senate and expects the bill to pass before the August recess. ACS had a key role in developing this legislation, contributing the federal sustainable chemistry program language that appears in Section 25 of S.697 (but not H.R.2576). Representative John Shimkus (R-IL-15), who sponsored H.R.2576, indicated that he will support similar sustainable chemistry language in the House bill.

As the name implies, the R&D tax credit enables companies to invest in R&D with the benefit of receiving a tax credit. The problem, though, is that this tax credit has been renewed by Congress typically on an annual basis. This means that companies can benefit from the credit, but often will not invest as much in R&D as they would if this tax credit were permanent and therefore could be a part of ongoing business planning.

Senators Carper and Patrick Toomey (R-PA) introduced S.537 COMPETE Act of 2015 on February 24, 2015. This bill is designed to make the R&D tax credit permanent. (The companion bill H.R.880 American Research and Competitiveness Act of 2015 passed the House on May 20, 2015.) Senator Carper indicated that he and Senator Orrin Hatch (R-UT), Chair of the Senate Finance Committee, consider this legislation a top priority in the 114th Congress.

Senator Carper also shared information about a plan from the Obama administration to address corporate tax rates broadly. The proposal would allow American corporations to repatriate overseas earnings at a 14% tax rate instead of the current 35% tax rate. The revenue obtained from this earnings repatriation would be used to fund improvements in transportation and infrastructure.

The past several weeks have seen activity in the Senate, led largely by Senator John McCain (R-AZ) to remove the budget control caps on Defense spending only for the next fiscal year, which begins on October 1. The Department of Defense Appropriations Act, 2016 (H.R.2685) failed to reach the 60 votes needed to advance (50-45). Senator Carper did not support this legislation. ACS favors a plan that lifts budget control caps on both defense spending and non-defense discretionary spending, which is the part of the budget that contains (non-DoD) federal funding for research.

The Delaware Section Government Affairs Committee thanks Senator Carper and his staff for taking the time to review policy items of interest to ACS.
Chair Justin Chan called the meeting to order at 5:52 P.M.

Chair’s Report:
Justin thanked everyone for coming. The Carothers Award banquet was successful, and attendance was approximately 60. The venue was crowded and noisy due to other events and some experienced difficulty hearing the speaker. Justin suggested exploring other locations. Rakesh Nambiar stated that Hagley Museum is highly interested in hosting the event. It would be a unique setting, which could justify the extra expense. Justin discussed the options for the spending the Labovsky funds and recommended that he and Peiwen work on this early during her year as Chair. Andrea Martin recommended getting information from Nora Radu or John Gavenonis on Carothers committee meetings.

Tiffany Hoerter was commended for her work on implementation of electronic voting, and for helping identify nominees. Over 250 votes were recorded, an approximately 20% improvement over last year. Continuing, and retiring members of the Executive Committee were recognized. New members will be invited to Executive Committee meetings. Jeff Moore maintains the email list and will be asked to add them. Election costs need to be added to next year’s budget under miscellaneous expenses.

Turnout for the May networking event was poor. It was moved to Newark, but no students attended. Ways to improve response from the University of Delaware community were discussed. Coordinating with a UD faculty member was suggested, as was scheduling an event after a seminar.

The 50/60 year event will be held in August or September, same luncheon format as last year at the Doubletree. Julie requested the list of names, and the date and time as soon as possible. An offer of transportation will be added to the letter.

Past-Chair’s Report:
No report.

Chair-Elect’s Report:
No report.

Treasurer’s Report:
Mary Jo Bock connected with Sharon for the Project SEED funding, which is handled through the section. She is meeting with a representative to finalize the details.

Secretary’s Report:
No report.

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Reports of Committees and Related Groups:
Tiffany Hoerter met with Bryan Tracy and Lori Palmer from the Delaware Sustainable Chemistry Alliance. We would like to build bridges between the two groups. They are planning an event targeting our members to highlight entrepreneurship in late 2015. We are targeting a joint event in 2016.

Education:
Andrea Martin reported for the committee:

High School Teacher of the Year
A call for nominations was sent out by Tiffany Hoerter on June 4. To date, one incomplete application has been received. The deadline is June 30. Andi is asking Tiffany to send a reminder e-mail to the teacher list with the deadline highlighted. The new award, effective this year, is a $250 award to the school in addition to the $250 award to the teacher. Norm Henry volunteered to help score the applications.

College Student Awards:
Student awardees have been named by UD Department of Chemistry & Biochemistry, UD Department of Chemical Engineering, and Wesley College. There is a new chair at Delaware State University who has promised a name in short order. The new award, effective this year, is a $250 cash award and a year’s membership in ACS.

High School Student Awards:
Mike Stemniski wrote, proctored, and graded the HS exam in May. A total of 43 students took the exam. Based on scores, we awarded 3 prizes ($150, $125, $100) and 3 honorable mentions ($75 each). All of the winners attend Charter School of Wilmington. Mike has already agreed to run the exam again next year; the date will be determined after McKean starts school again in the fall. If there is someone downstate who would like to arrange a testing location and proctors, we could offer the exam to students there; anyone who would like to volunteer should contact Mike or me.

Along with Norm Henry, Andi helped select the Blunt Scholarship winner on the basis of essays from the candidates. She revised the Education sections of the Awards document on the website & sent it to Tiffany for posting.

The NSTA (National Science Teachers Association) will hold an Area Conference in Philadelphia from Nov. 12-14, 2015. Justin and Tiffany will post the information in the DelChem Bulletin and on the website.

Awards:
Julie Brady reported that approximately 17 text book award responses had been received. Tiffany sent out an email, and paper letters were also sent. The email response is better. We will send out another email in early August.

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Call for Nominations for Section Officers and Councilors

The Delaware Section of the American Chemical society is looking for candidates for local section officers to run in the May 2016 elections. The terms would begin January 2017. If you or someone you know is interested in running for the following positions, please contact Justin Chan at (302) 695-3514 or by email at justin.w.chan@dupont.com. The deadline for submission of materials is March 1, 2016. The positions that are open include:

Chair Elect............................................................1 year term
Secretary...............................................................1 year term
Director.................................................................3 year term
Councilors.............................................................3 year term
Alternate Councilors.............................................3 year term

Job descriptions can be found at: http://www.delawareacs.org/documents
Call for Nominations

Delaware Section Award
The purpose of this award is to recognize conspicuous scientific achievement in an area of chemistry or chemical engineering by a Delaware Section member. The Award, established in 1956, is funded by the ACS Delaware Section, and consists of a certificate and honorarium. It will be presented at the January 2016 Delaware Section meeting, at which the recipient is the main speaker. Any member of the ACS Delaware Section may be nominated for this award. Nominations, which are processed through the Awards Committee, may be based on the member’s single or extended activities. The scientific achievement and contribution should be of such a nature that a meaningful address before the Section can be given. Previous recipients may be nominated based on new contributions. Nomination should take the form of a written documentation of achievements and contributions with supporting references such as patents and publications. The deadline for nomination is November 15, 2015.

Tillmanns-Skolnik Award
The Delaware Section Awards Committee is accepting nominations for the Tillmanns-Skolnik Award to be given in January 2016. The award is granted for outstanding contribution to the content of Section programs, to the administrative function of the Section, or to the improvement of the public perception of the Section. Either a single noteworthy achievement or long continuous service may be recognized. Any Delaware Section member can submit the name of a nominee and a short description of the nominee’s qualifications for the award. The nominee cannot be a voting member of the Executive Committee during the calendar year prior to the presentation of the award. The deadline for nominations is November 15, 2015.

Lillian Webster Award
This award is given to recognize unusual service or extraordinary dedication to the Delaware Section through long term activity or other meritorious work. It is given sporadically at the discretion of the Chair to a non ACS member who has served the Delaware Section by giving freely of their time for the betterment of the section. The deadline for nominations is November 15, 2015.

Submit nominations to the Awards chairman:
Norman W. Henry III
129 Ballantrae Drive
Elkton, MD 21921-2982
(410) 398-9484
E-mail: SHBP65@comcast.net
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Science on Tap

Date: September 14, 2015
Time: 6:00 p.m.
Location: National Mechanics
22 South Third Street
Philadelphia, PA 19106
Fee: None
Registration: None Required

Science on Tap is a monthly science café in Philadelphia for anyone interested in getting together with other people to discuss a range of engaging science topics. It is held the second Monday of (most) every month.

Located at National Mechanics, a relaxed, convivial bar in Old City, Science on Tap features a brief, informal presentation by a scientist or other expert followed by lively conversation. The goal is to promote enthusiasm for science in a fun, spirited, and accessible way, while also meeting new people. Come join the conversation!

Check online for this month’s topic.
Presented by the Mütter Museum.
Open to the public (age 21+ or accompanied by chaperone 25 years or older).

Election Results – 2015

A total of 248 valid votes and 5 abstentions were received.
Results are as follows.
Chair-elect (2016)
Giang Vo
Secretary
Julie Brady
Treasurer
Alicia Briegel
Director
Andrea Martin
Councilor (2016-2018)
John Gavenonis
Martha Hollomon
Alternate Councilor (2016-2018)
Norm Henry
Nora Radu
Alternate Councilor – Special Election (2016-2017)
Kim Huynh-Ba
September

4    First Friday: Extreme Art Makeover
10   Joseph Priestly Society: David DeVore
14   Science on Tap
16   ChemVets Meeting - Gerald Poirier - 12 - 2 pm, Chestnut Run Plaza, DuPont
26   50/60 Year Awards Event- Doubletree Hilton - Concord Pike, Wilmington, DE