April Section Meeting

Carothers Award Dinner and Reception
Joanna Fowler, Recipient and Speaker

April 20, 2016, 5:30 pm
DuPont Country Club
Wilmington, DE

For information on section activities visit our web site at:
www.delawareacs.org
The Carothers Award Dinner —
This annual event is scheduled for April 20. I think of this as the highlight of the year for the Delaware Section. If you only get to one meeting a year, this is it! Come, mix and mingle with the best minds in Delaware. I hope to see you there.

The Dupont Dow Merger —
We continue to learn more of the details. The best news to date is that Delaware will be home to two of the three new companies. Keeping the Ag Chemicals here will certainly help our economy and keep more chemists employed.

The layoffs are a serious problem we still need to deal with. The state and ACS are working to find new opportunities for these chemical professionals. New start-up companies are one option that would avoid the need to relocate. I hope that Dupont will be generous in making some of their soon to be empty labs available for minimal rents. Maybe I’ll occupy one and try to push back the frontiers of chemistry. How about a beer made from lawn clippings?

J. Willard Gibbs —
On February 11th, I attended a birthday party for this famous and long dead Physical Chemist of Yale University. Each year this event is hosted by Professor Burnaby Munson of the U.D. Department of Chemistry and Biochemistry. He self funds this event which includes birthday cakes plus a great variety of munchies and sweets. Gibbs draws a crowd every year, including students, faculty and staff members. All know that the entire world lives by \( G = H - T \cdot S \), especially on February 11th!

Uncle Tungsten —
I recently enjoyed this book by the late Oliver Sacks, published in 2002 by Vintage Books. It only took me 13 years to get my act together and dive in. The focus is his childhood fascination with chemistry. While I enjoyed a Gilbert Chemistry set in my youth, young Oliver had an impressive chemistry lab in his home with a functioning fume hood.

His uncle, Dave Landau, made light bulbs with tungsten filaments, thus earning the name Uncle Tungsten. He encouraged young Oliver and provided him with a variety of metals, chemicals and lab equipment. It seemed like his love of all things chemical would have led him into our profession.

However, both of his parents were physicians and two older brothers also joined that profession. When Oliver was fourteen, his mother had a friend at a nearby med school provide him with a cadaver for study! Oliver gradually drifted away from a chemistry career in favor of medicine, yet he maintained his love for our science to the end.

He died last year after finishing his autobiography, “On The Move.” Sacks was a man of many talents and his final work was very interesting. His was truly an amazing life!

I look forward to seeing you at our April meeting.

Carothers, Gibbs and Sacks
Al Denio

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Tips for Interview

One goal of the section this year is to help our members with professional development, especially under the current difficult environment in Delaware. The March monthly meeting was a great success focusing on the career workshop. Many thanks to Tiffany Hoerter and Steve Meyers from national ACS for organizing such a great event including talks, personalized resume review and mock interviews. Five professional career consultants and 22 participants attended the workshop. Although I am not a career consultant or expert, I myself have participated in several interviews and have been involved in a few recruiting efforts. I would like to share with you some personal tips for interview here.

Whether it is a phone interview or an on-site interview, preparation is always important. If a candidate fails to respond well to key questions during the interview, the interviewer may have a poor first impression and attribute this to two reasons: (1) the candidate doesn’t know the answer or (2) the candidate was not well prepared for the interview. Either one will make it difficult to justify the qualification of the candidate. So get prepared, even for some unexpected questions. One book I found very helpful is “Next-Day Job Interview” by Michael Farr and Dick Gaither. This book provides general guidance for interviews for any occupations, but you will get the idea about how to prepare for an interview, and why interviewers would ask certain questions. It is a good idea to prepare different lengths of speeches describing your ability, skills and background, from a 30 seconds’ “elevator pitch” to a 50 minutes’ scientific presentation. To make you stand out from other candidate, do some online research about the employer — recent news, directions, culture, etc., and prepare several questions related directly to the employer and the position. This information will be helpful to initiate a conversation during the interview, and present your interest as a best fit to the employer. Finally, be yourself. Your personality and honesty sometimes could win a thousand words. I hope that you will find these tips helpful.
This year, the Carothers Award will be presented to Dr. Joanna S. Fowler on April 20 at DuPont Country Club for her extraordinary pioneering work on radiotracer studies. Several radiotracers invented by Dr. Fowler, together with positron emission tomography (PET) imaging, have become a mainstay for brain-imaging diagnostics and studies in schizophrenia, aging and cancer. We are fortunate to have her as the awardee and speaker to give us an enlightening lecture on “Rapid Radiotracer Chemistry and Imaging the Human Brain”. For the first time, we will use the sponsorship from Mr. Joseph Labovsky’s family to support a discount for students and unemployed registrants this year. Mr. Labovsky worked with Dr. Wallace H. Carothers on the invention of Nylon in the 1930’s, which then started a new era of industrial polymers and brought DuPont a tremendous commercialization success. Our section greatly appreciates Mr. Labovsky’s family’s support. Please join us and register at http://delawareacs.org.

Peiwen
April Section Meeting

Carothers Award Banquet Dinner and Reception

“Working Against Time: Rapid Radiotracer Chemistry and Imaging the Human Brain”

Recipient and Speaker: Joanna Fowler

Date: April 20, 2016

Time: 5:30 PM Reception
6:30 PM Banquet Dinner
7:30 PM Award Presentation and Lecture

Location: DuPont Country Club
1001 Rockland Rd, Wilmington, DE 19803

Dinner choices: Crusted Sea Bass
Grilled Beef Steak
Portobello Tower

Event Type: Registration Required
(dinner included)

Fee: $35
$5 for student and unemployed members *sponsored by the gift from Joseph Labovsky

Registration: visit http://www.delawareacs.org/
Or Contact Peiwen Zheng, peiwen.zheng@dupont.com

Deadline: April 14th, 5 pm
Reservations not cancelled by April 14th will be billed

History of the Carothers Award:
The Carothers Lecture Award was established by the Delaware Section of the American Chemical Society in 1976 in memory of Wallace H. Carothers, one of the founders of modern polymer chemistry. The purpose of the award is to honor scientific innovators who have made outstanding contributions and advances in industrial applications of chemistry. The award is sponsored by the Delaware Section and by local chemical companies. The sculpture consists of two hands holding a benzene ring, depicting a person shaping molecules. The artist is Mr. Domenico Mortellito, a well-known local sculptor, muralist, and painter, who pioneered the use of synthetic materials in the fine arts.
First Friday: “ScholarFest”

Date: April 1, 2016
Time: 5:00 p.m. to 8:00 p.m.
Location: CHF, 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: Free
Registration: Not Required

In Strongman competitions men and women display their strength by lifting cars or tires or pulling extremely heavy objects. At ScholarFest our fellows will dazzle you with “their academic feats of strength,” presenting fascinating research under challenging circumstances of their choosing. Will they give you the history of the periodic table in five minutes while standing on one leg? Blindfold themselves and correctly name various collection items using only touch? Who will be crowned the ScholarFest champion? Find out at a First Friday that is sure to leave you laughing while you learn something new.

Presentations will take place at 5:45 p.m. and 6:45 p.m. The Museum at CHF will be open for self-guided tours throughout the evening.

Rohm and Haas Fellow in Focus Lecture

“Science at Home: Domestic Spaces, Thrift, and Experiment in the 17th and 18th Centuries” by Simon Werrett

Date: April 6, 2016
Time: 6:00 p.m. lecture, 7:00 p.m. reception
Location: CHF, 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: Free
RSVP Online: Registration Required
https://www.chemheritage.org/secure/register-for-an-event

Today it would seem impossible to do science without highly specialized equipment and laboratories. Yet in the 17th and 18th centuries “experimental philosophers” routinely set up laboratories inside the kitchens and cellars of their homes and used a wide range of domestic furnishings and utensils to make investigations into nature. Using CHF’s remarkable collection of paintings and engravings of early modern laboratories, this presentation will explore the diverse and ingenious means by which experimenters turned the objects and rooms found in their homes to scientific advantage. Their methods offer lessons for a more sustainable style of science in the future.

About the speaker:
Simon Werrett is a senior lecturer in the Department of Science and Technology Studies at University College London (UCL), where he teaches the history of early modern science. Before coming to UCL he was an associate professor in the Department of History at the University of Washington, Seattle. Werrett has held postdoctoral fellowships at the Max Planck Institute for the History of Science in Berlin and the Getty Research Center in Los Angeles. He was a fellow of the Rachel Carson Center for Environment and Society in Munich in 2011 and is a visiting fellow at the Chemical Heritage Foundation and Max Planck Institute for the History of Science in Berlin.

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Institute for the History of Science in 2016. Werrett’s research explores the history of science through practice and material culture, particularly the ways that craft techniques such as painting, fountain making, architecture, fireworks, and music have served as resources for developing scientific inquiries. His first monograph, Fireworks: Pyrotechnic Arts and Sciences in European History, was published by the University of Chicago Press in 2010.

Brown Bag Lecture:

Date: April 11, 2016
Time: 12:00 to 1:00 p.m.
Location: CHF, 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: Free
RSVP Online: No Registration Required

Between the end of the 19th century and the middle of the 20th, a broad coalition of scientists, artists, industrialists, and educators in the United States struggled with the problem of how to measure, define, and standardize color sensations. Human beings seemed capable of perceiving millions of distinct color sensations. Moreover, in the rapidly changing economy and culture of the progressive-era United States, Americans in particular appeared bent on putting these sensations to work in the production of all manner of outlandish commercial amalgamations of light and pigment. But how to identify each of these sensations with lasting precision and accuracy—so that, for example, a consumer in Chicago could order a precise shade of upholstery from a manufacturer in Philadelphia, or a civil engineer could properly designate the color of traffic lights, or a teacher could describe to her pupils accurate rules of color harmony—was a vexing matter. Color seemed to be so real, so definite, so indisputably an aspect of the brute facts of physical existence, and yet was evidently entirely fleeting and resistant to codification according to the very natural sciences—for instance, chemistry, physics, physiology—that seemed to produce color sensations in the first place.

This talk examines attempts to tackle “the color question” (as board-game manufacturer Milton Bradley put it) in the United States from 1880 to 1930. Starting from small, proprietary systems of color standardization developed by individual scientists and manufacturers at the end of the 19th century, by the middle of the 20th century, color had become a public good—a common resource administered by bureaucratic bodies like the National Bureau of Standards and the Commission Internationale de l’Éclairage (International Commission of Illumination). Along the way to defining what standard colors were, researchers had to make subtle but profound decisions not simply as to the identity of particular colors or qualities of colors but as to the nature of color itself and the relationship among individuals, society, and the visible real.

Michael Rossi is a historian of medicine and science in the United States from the 19th century to the present. His work focuses on the historical and cultural metaphysics of the perception: how different people at different times understood questions of beauty, truth, falsehood, pain, pleasure, goodness, and reality vis-à-vis their bodily selves and those of others. His first book manuscript traces the origins of color science—the physiology, psychology, chemistry, and physics of color—in the late-19th-century United States to a series of questions about what modern America ought to be: about the scope of medical, scientific, and political authority over the sensing body; about the nature of aesthetic, physiological, and cultural development between individual and civilization; about the relationship between aesthetic harmony, physiological balance, and social order.
Joseph Priestley Society:  
“Driving Innovation in an SME: Graphene, Carbon Nanotubes, and Other Fun Things!” by Harry Swan  
Date: April 14, 2016  
Time: 11:30 a.m. to 2:00 p.m.  
Location: CHF  
315 Chestnut Street, Philadelphia, PA 19106  
Event Type: Open to the Public  
Fee: $25  
RSVP Online: Registration Required  
https://www.chemheritage.org/secure/register-for-an-event  
CHF is pleased to welcome Harry Swan, managing director, Thomas Swan & Company, Ltd., as the keynote speaker for the April meeting of the Joseph Priestley Society. Swan will present “Driving Innovation in an SME: Graphene, Carbon Nanotubes, and Other Fun Things!”

Brown Bag Lecture:  
“Material Literacy and the Role of Reconstruction in History of Science Scholarship: ‘Making and Knowing’ in the Lab” by Donna Bilak  
Date: April 18, 2016  
Time: 12:00 to 1:00 p.m.  
Location: CHF, 315 Chestnut Street, Philadelphia, PA 19106  
Event Type: Open to the Public  
Fee: Free  
RSVP Online: No Registration Required  
The Making and Knowing Project is a remarkable undertaking that revolves around the textual and practical analysis of a late-16th-century anonymous French manuscript compilation of artisanal recipes of a proto-scientific nature held by the Bibliothèque Nationale de France, known as Ms. Fr. 640. This talk examines the pedagogical and research impact of the Making and Knowing Project to ask what happens when we connect textual interpretation to that which is physical, sensory, ephemeral, and experiential.

Headquartered at Columbia University under the direction of Pamela H. Smith (History Department), and in affiliation with the Chemical Heritage Foundation, the Making and Knowing Project establishes a space to gather and synthesize expert knowledge from a wide range of scholars, conservators, and artisans, which flows into the production of the open-source online critical edition of Ms. Fr. 640. This collective endeavor is characterized by diverse scholarly and craft methodologies. These underpin the manuscript’s exploration by Columbia graduate students, who interpret and reconstruct the recipes in our laboratory/seminar, integrating their work into annotation essays to form the edition’s critical commentary, thus rooting it in student-generated content.

This talk also questions such material approaches for which the Making and Knowing Project provides an interesting context for assessment: What kinds of knowledge does the study of things in fact yield? What should determine the protocols that would support their use as a viable methodology for piecing together the past? How can scholars effectively engage in these modes of investigation?

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Brown Bag Lecture: “Material Literacy” continued from page 8

Donna Bilak is the History of Science and Technology Postdoctoral Fellow at Columbia University and a Columbia-CHF Scholar for the Making and Knowing Project. She was the 2013–2014 Edelstein Postdoctoral Fellow at the Chemical Heritage Foundation in Philadelphia where her research focused on analysis of the Atalanta fugiens (1618), an alchemical emblem book that encodes laboratory technologies using music and images. Bilak’s doctoral research reconstructed the life and times of a 17th-century Puritan alchemist who operated in England and America, and her research encompasses early modern European history of science and alchemy, early modern emblem culture, as well as 19th-century jewelry history and technology.

2016 Delaware Membrane Protein Symposium

Date: Monday, April 18, 2016
Time: 8:00am to 5:15pm
Location: University of Delaware Clayton Hall, Lobby, 101-A, 101-B 100 David Hollowell Drive, Newark, DE 19716
Website: http://sites.udel.edu/cobre/symposia/2016-symposium/**
Cost: Free - Registration required
https://docs.google.com/a/udel.edu/forms/d/11CfXbV0UXZH5VfsvXPka_b9TineqHMPP8B1tiQce_s/viewform
Contact: Kristi Halberg, khalberg@udel.edu, 302-831-4500

The University of Delaware, Department of Chemical and Biomolecular Engineering, Center of Biomedical Research Excellence, is hosting a symposium to bring together people from a diverse range of interests and techniques, but who all share an interest in exploring the functions of membranes and their components. In addition to the invited lectures by renowned experts in membrane biophysics and biology, the symposium includes poster presentations by students and postdocs.

ChemVets Meeting
Searching for Signs of Cancer on Earth and for Signs of Life on Mars One Laser Pulse at a Time

Noureddine Melikechi
Distinguished professor of Physics
Delaware State University

Date: April 19, 2016
Time: 12 p.m. – 2 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

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Brown Bag Lecture: Plastic Design continued from page 9

Abstract:
Successful treatment of cancers requires detecting early and specific signs of the disease. One way to approach this is to develop minimally invasive tests for the sensitive, specific and accurate detection of biomarkers in biomedical samples. However, this remains a challenging task because biomarkers are typically present in low concentrations in environments that are crowded with complex compounds typically contained in biomedical samples. During my presentation, I will discuss the potential and the challenges that laser induced breakdown spectroscopy (LIBS) presents for the early, specific and accurate detection of one cancer that does not present specific symptoms: epithelial ovarian cancer (EOC). I will show that by tagging one of EOC’s biomarker, cancer antigen-125, with specific micro-particles prior to performing LIBS measurements it is possible to obtain spectroscopic signatures of EOC even during its early stages of development. Finally, I will present our most recent results on combining LIBS and pattern recognition techniques to distinguish cancerous (EOC and other cancers) from non-cancerous biomedical samples. In the second part of my presentation, I will describe ways that laser induced breakdown spectroscopy is used on Mars to better understand this planet and to look for signatures that may indicate the presence of life.

Speaker’s Biography:
Dr. Noureddine Melikechi is a Distinguished Professor of Physics, the Vice President for Research, Innovation and Economic Development and the Founder and Director of the Optical Science Center for Applied Research, at Delaware State University. He is also a Visiting Professor of Physics at Vassar College, NY, and an Adjunct Professor of Physics at Miami University, OH.

Dr. Melikechi received his Baccalaureate in Mathematics in Algeria, and a Diplôme d'Études Supérieures in Physics at the University of Sciences and Technology of Algiers, Algeria. He then went on to pursue a Doctorate of Philosophy in Physics at the University of Sussex in England.

Dr. Melikechi is the founder of the Optical Science Center for Applied Research (OSCAR: www.oscar.desu.edu), a center dedicated to research and innovation in biomedical photonics, space and remote optics for and earth science, imaging and data analytics. He is an Atomic, Molecular and Optical Physicist and is the author of more than 145 peer-reviewed publications, 3 book chapters and 15 patents.

For more information about this event, please contact Bruce Frye, 2014 ChemVets Chair, at bfrye6@yahoo.com

Brown Bag Lecture: Plastic Design continued from page 9

“Segmentation of Issues as Process of Invisibilization: The Case of Pesticides” by Nathalie Jas

Date: April 25, 2016
Time: 12:00 to 1:00 p.m.
Location: CHF, 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: Free
RSVP Online: No Registration Required

Since the last third of the 19th century, toxic chemicals—now generically classified as “pesticides”—used in agriculture (in crop protection, animal breeding, forestry, various industries, public health, and homes to fight insects, and to control various pathogens, weeds, and rodents) have been the object of recurring controversies. Since that time their environmental and health effects have been denounced in various ways, leading to many national and international regulations. Yet, to paraphrase the words of a French epidemiologist, although the fact that pesticides may be hazardous has been recognized for a long time, the...
Minutes of the Executive Committee Meeting  
Delaware Section of the American Chemical Society  
Thursday, January 28, 2016.

Chair Peiwen Zheng called the meeting to order at 6:30 P.M.

Chair’s Report:
Peiwen thanked everyone for coming and welcomed Giang Vo and Alicia Briegel to the Executive Committee. Giang has attended Chemical Heritage Society events. The transition of responsibility for accounts to Alicia from Mary Jo Bock has occurred.

Peiwen reported that Neil Zondlo from the University of Delaware is the new chair of the Carothers Award committee. Peiwen has been and will be coordinating with him. The award will be presented April 20, at the DuPont Country Club. The recipient is from Brookhaven National Laboratory so housing and travel will need to be covered. Trophies were discussed. This year’s trophy was ordered and paid for last year; Allison Moore confirmed that Mary Joe had paid for it. Peiwen will check that Neil has the trophy.

The January meeting was a networking event at the BBC Tavern and Grill. About 11 people attended, the group was a mix of younger and senior members. Peiwen received favorable feedback on continuing this type of networking event.

The February meeting will be a joint affair with the Delaware Sustainable Chemistry Alliance (DESCA) on February 3. The topic is “Innovation to Invoice” and is particularly timely due to the recent DuPont reorganizations. Tiffany Hoerter coordinated with DESCA. The meeting will be held at the Doubletree Hilton on Concord Pike, and costs will be split between the two groups. There are currently 55 registrants. Thanks to Tiffany and her counterpart at DESCA for organization and publicity.

Tiffany will organize a career event for the March meeting utilizing National ACS resources for local members seeking employment. She is working with Steve Myers from the Committee for Economic and Professional Affairs. The Career Navigator materials come from that committee. Tiffany connected National ACS to DuPont, highlighting their tools for placement, which DuPont is using.

The different services that career consultants could supply and the approximate costs were discussed. Career workshops were also discussed; presenters are available from nearby sections. Tiffany hopes to combine a half-day career workshop with career consultant services. Allison noted that past career workshops were well-attended.

Tiffany and Andrea Martin are preparing an Innovation Grant proposal to support career development. The grants are currently $3000.00; the section would request the difference between that and the $2000.00 that will be recovered from the funds for the previous grant. Andi pointed out that the event will benefit the Section as employment losses and transfers will decrease membership.

Peiwen will include information about ACS benefits and resources for unemployed members from National ACS in the February DelChem Bulletin. Tiffany was thanked for chairing the event.

The Carothers Award banquet will be the April meeting. Peiwen reported that she discussed using the Labovsky funds to support attendance for students and unemployed members with the Carothers committee, and the Executive Committee commended that use. Tiffany noted that the Labovsky family should be invited and mentioned in the program.

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Norm Henry reported that the Delaware Academy of Chemical Sciences has displayed the Carothers memorabilia at Brown Labs at UD. Peiwen suggested including a picture of the display in the awards banquet program and asked Norm to send one to her.

The Carothers committee would like information about the award disseminated and asks that any publicity include requests for nominations. It had been sent to ACS for publication in C&EN in the past; Tiffany indicated that could be done this year.

The May meeting will be chaired by Giang, and will be the Section Award meeting. Norm Henry presented the Section Award nominations, the winner will be notified and a date will be agreed upon. The College Student Awards, High School Teacher of the Year, Blunt Scholarship, and High School Test winners will be recognized at the meeting. Allison suggested including the 50/60 year Member awards too. A date in early to mid-May is preferred. Scheduling the meeting on a weekend was discussed. Julie Brady will notify those being recognized.

Committee chair vacancies and election nominations were discussed. Peiwen asked the committee to share recommendations with her, and asked those running to send her biographies. The deadline for nominations is March 1 for the April DelChem Bulletin. A volunteer will be needed to run the online election as Tiffany is up for re-election this year. Julie will send the nominations spreadsheet indicating open positions to the committee.

Peiwen thanked everyone for their support on the issues involved with cancellation of her and Giang’s ACS Leadership Institute trip due to the blizzard.

**Past-Chair’s Report:**
Peiwen reported that Justin Chan thanked those who had submitted year end reports and requested any still outstanding be sent to him.

**Chair-Elect’s Report:**
Giang reported on the Chemical Heritage Foundation and Life Sciences Foundation merger. CHF is the larger and older of the two institutions, and the combined foundation will be headquartered in Philadelphia. The focus will include Chemistry, Chemical Engineering, and Biotechnology, and their events and seminars will continue to be offered.

**Secretary’s Report:**
Julie requested information on any changes in committee leadership. Andi inquired on the status of an Audit Committee. This is not one that is reported to ACS. Jeff Moore, Todd Bruegel, and Lois Weyer had served at various times. Biswajit Choudhury volunteered for this and will get in touch with Jeff Moore about the process.

**Treasurer’s Report:**
Alicia thanked the committee for their support and help as she learns her role.

**Reports of Committees and Related Groups:**
Awards: Norm Henry asked for help in getting out word about the awards. Andi suggested asking the former winners to suggest nominees. Allison suggested asking the ChemVets group for input.

Norm has been named to the National Senior Chemists Committee

**Education:**
Andi noted that the Spring UD Poster session has not been held recently; she will investigate if someone at UD is willing to revive it. Nominees for the College Student Awards and High School teacher of the year will be solicited. Glen Hartmann of Archmere Academy will be asked to again conduct the Chemistry Olympiad in March and Mike Stemniski has

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agreed to coordinate the high school chemistry test in May.

**Old Business:**
The status of the annual report was discussed. The report is due February 15, and a reminder that a councilor needs to be available to approve the report was given.

Meeting frequency and format was discussed. Peiwen will send out a poll for the February meeting.

**New Business:**
The Section is tentatively scheduled to host MARM in 2018 in honor of our 100th anniversary. An organizational committee needs to be formed shortly.

Allison moved to adjourn, Tiffany seconded. The motion carried, and the meeting was adjourned at 7:39 P.M.

**Officers and Councilors Present:**
Peiwen Zheng, Julie Brady, Alicia Briegel, Biswajit Choudhury, Norm Henry, Tiffany Ho-erter, Andrea Martin Allison Moore, Giang Vo

**Officers and Councilors Absent:**
Justin Chan, John Gavenonis, Martha Hollomon, Kim Huynh-Ba, Nora Radu, Maggie Schooler

**Others Present:** none

Respectfully submitted,

*Julie E. Brady*

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hazards and risks they actually pose remain for most of them either largely unrecognized, not well known, or not known at all. The talk will explore two French historical cases to show how strong processes of segmentation of issues at work in medical and scientific research, regulation, and activism have led to equally strong processes of selection of issues that are worth considering and, as a result, of the long-term invisibilization of many of the multifaced problems that pesticides may cause. I will first examine the beginning of the 20th-century French controversy over the use of arsenical compounds in crop protection that led to the first important nationwide pesticides regulation. I will then deal with the 1950s controversies over the development of uses of synthetic pesticides and the failed attempt to develop a new research field on “toxic substances used in agriculture.” Finally, I will quickly assess the current partial visibilization process of the health effects of pesticides at work in France.

Nathalie Jas is a historian and an STS scholar. She is senior research fellow at the French National Institute for Agricultural Research (INRA) where she leads an interdisciplinary team studying risks in agriculture and agri-food industries. Her research focuses on the government of toxic-related issues. She has recently coedited (with Soraya Boudia) two books on this topic: Toxicants, Health and Regulation (Pickering and Chatto, 2013 & 2016) and Powerless Science? Science and Politics in a Toxic World (Berghahn, 2014 & 2016).

DE ACS and UD Annual Student-Industry Poster Session

Date: May 3, 2016
Location: The Interdisciplinary Science and Engineering Laboratory (ISE Lab), University of Delaware, Newark, DE 19716
Event Type: Open to the Public

More detailed information is coming. Please check out next issue DelChem or online.
**Calendar of Events**

April

1. First Friday: “ScholarFest”

6. Rohm and Haas Fellow in Focus Lecture: “Science at Home: Domestic Spaces, Thrift, and Experiment in the 17th and 18th Centuries” by Simon Werrett


18. 2016 Delaware Membrane Protein Symposium

19. ChemVets Meeting: Searching for Signs of Cancer on Earth and for Signs of Life on Mars One Laser Pulse at a Time


21. The national ACS Chemistry Olympiad exam at Archmere Academy


29. High school chemistry exam at McKean High School