Delaware ACS Networking Happy Hour

Wednesday, January 21st, 2015
5:30 - 7:30 pm
BBC Grill and Tavern,
4019 Kennett Pike Greenville, DE 19807
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 2015 elections. The terms would begin January 2016. 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, 2015. The positions that are open include:

Chair Elect............................................................1 year term
Director.................................................................3 year term
Treasurer...............................................................2 year term

Job descriptions and duties can be found at:
http://www.delawareacs.org/documents
Happy Holidays and Happy New Year! I hope that all of you had a safe and enjoyable holiday season. It is with great honor and excitement that I begin my service as the Delaware ACS section Chair. I am truly humbled to serve with a diverse and energetic team of chemistry professionals. This is going to be a fantastic year for the Delaware Section of the American Chemical Society.

I would like to take this opportunity to thank the 2014 DE ACS executive committee for their dedication, support, and drive for an enjoyable and successful year. In particular, I would like to thank Rakesh Nambiar for his superb service as 2014 Chair. Rakesh is an amazing leader who has really dedicated time to transition me into the role of Chair. Thank you, Rakesh, for an excellent job!

During 2014, the DE ACS section has contributed to several accomplishments which should be highlighted: organization of an inspiring presentation by Sen. Coons about Science & Technology, increased support to elementary school science fairs, NatureFest and National Chemistry Week events, supported talks from environmental experts on fracking, rising sea level related topics, and awards to high school science and math students.

I am excited to serve this year with Peiwen Zheng who is the DE ACS 2015 Chair Elect. Peiwen has a unique background and spirited insight that will continue to strengthen learning and diversity in the Delaware Section of the ACS.

One of my goals this year is to increase participation of minorities to develop interest towards science - primarily chemistry in the form of more awards, grants, and support. I would also like to continue to strengthen participation in our section meetings by offering a variety of networking activities starting with our January meeting.

We will be kicking off the year with a Happy Hour at BBC Tavern and Grill, 4019 Kennett Pike Greenville, DE 19807, January 21st from 5:30 -7:30 pm. Please come out and support ACS. We can also take this time to talk about activities that you would like to attend. This will be a great opportunity to network with fellow members – please spread the word and bring several guests.

There are several events that will take place January at the Chemical Heritage Foundation related to chemical industry. Ed Richman,
Chemical Heritage Foundation Priestly Society Luncheon

“Richman Chemical: One Entrepreneur’s Story

Edward Richman

Date: January 8, 2015
Time: 11:30 a.m.–2:00 p.m.
Location: CHF 315 Chestnut Street, Philadelphia, PA 19106
Event Type: Open to the Public
Fee: $25
Registration: Required
https://www.chemheritage.org/secure/account-sign-in

This installment of the Joseph Priestley Society (JPS) lecture series will include a keynote address by Ed Richman, president of Richman Chemical, who will present "Richman Chemical: One Entrepreneur’s Story". Ed Richman started a chemical manufacturing business without customers, products, technology, facilities, money, smoke, or mirrors. Now, 27 years later, still no products, technology, facilities, smoke, or mirrors but at least plenty of customers and some money too. As a preferred outsourcing partner to life-science, specialty-chemical, and emerging technology companies, Richman Chemical provides custom manufacturing, product sourcing, and project management solutions that save time and are cost-effective.

Working primarily with North American partners, Richman Chemical places and manages custom manufacturing projects and also custom-sources raw materials. By streamlining the project management process, the company delivers lower costs and accelerates the time to market for clients' products. When appropriate, Richman Chemical also sources from qualified partners in Asia and Europe. The company identifies the solution that works best for each client and then pursues, manages, and ultimately delivers it.

Schedule:
11:30 a.m.–12:15 p.m. Networking reception
12:15–1:00 p.m. Luncheon
1:00–2:00 p.m. Keynote address

For more information about this event, please contact Sarah Reisert, awards program manager, at 215.873.8263 or sreisert@chemheritage.org
ChemVets Meeting

“Biomimicry – a powerful driver for new material concepts, designs and solutions”

Professor Ross A. Lee

Date: January 20, 2015
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

Abstract:
Ever wonder how Velcro came into being? How the Namib beetle can live in an arid climate? Why a bullet train has a front that looks like a bird’s beak?

Biomimicry is about learning from nature to improve our engineered designs and solutions. Dr. Ross Lee is a core faculty member at Villanova University, responsible for the Sustainable Materials track in the Sustainable Engineering program. He will provide a brief overview of biomimicry and then highlight how learnings from nature can be applied to novel material solutions using examples from his courses and collaborations.

Biomimicry is an exciting and growing area. There are three technology revolutions going on today in biotechnology, information technology and material technology. The intersection of these is enabling us to understand and apply learnings from nature in ways that we could never do before. Ross’ talk will provide a peek into some of the awesome material concepts, designs and solutions that are being developed today as a result.

Biography:
Ross Lee is an Engineering Fellow and Adjunct Professor (since 2008) at Villanova University where he teaches Biomimicry, Sustainable Industrial Chemistry, Sustainable Materials and Design, Green Science, and Engineering Entrepreneurship. Dr. Lee has over 36 years of industrial experience with the DuPont company (retired July 2009) spanning a wide variety of new technology, new product and new business developments including films, resins and innovative packaging systems. He has authored or coauthored over 20 patents and publications. In his most recent position at DuPont, Ross was responsible for bringing new technology to packaging through open innovation and was instrumental in developing DuPont’s alliances with Plantic, for a renewably sourced and biodegradable material offering, and Scanbuy for a mobile enabled interactive technology that reduces the amount of paper-based information needed. He is a recipient of the 2008 DuPont Sustainability Award. He has a Ph.D. in Organic Chemistry from Michigan State University and a B.S. in Chemistry from the University of Rochester. Ross and his family reside in Chesapeake City, Maryland.

For more information about this event, please contact Bruce Frye, 2014 ChemVets Chair, at bfrye6@yahoo.com
President of Richman Chemicals, will present the keynote address at the Priestly Society Luncheon. Additionally, Dr. Ross Lee will speak about Biomimicry and novel materials at the January ChemVets meeting. Please check out the Announcements section for other activities. I am looking forward to stimulating and interesting talks and events during 2015.

Please feel free to provide feedback to any of the executive committee members throughout the year by phone or email, which is provide in this issue or online at http://www.delawareacs.org/. Thank you for providing me with the opportunity to serve you as the DE ACS Chair for 2015.

Justin W. Chan

---

Science on Tap

“The Floor is Lava (Literally): The Dos and Don’ts of Volcanology”

Loïc Vanderkluysen

**Date:** January 12, 2015

**Time:** 6:00 p.m.

**Location:** National Mechanics
22 S. Third Street Philadelphia, PA 19106

**Event Type:** Open to the Public

**Fee:** Free

**Registration:** Not 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!

**Topic:** Check http://www.chemheritage.org/visit/events/public-events

---

Chemical Consultants Network

“Creativity for Consultants”

John Newport and Roman Bielski

**Date:** January 14, 2015

**Time:** 5:30-9:30 p.m.

**Location:** The Cynwyd Club
332 Trevor Lane Bala Cynwyd, PA 19004

**Fee:** Free for talk only or $25 for talk + dinner

**Registration:** Please check the website

**Schedule:**
5:30 p.m. Networking reception
6:30 p.m. Dinner
7:30 p.m. Talk and Business Session

**Topic:** Check http://www.chemconsultants.org
Minutes of the Executive Committee Meeting
Delaware Section of the American Chemical Society
Tuesday, November 18, 2014, Teleconference

Chair Rakesh Nambari called the meeting to order at 12:05 P.M.

Chair’s Report:
Rakesh reported on the 50-60 year members’ event in September. 16 honorees attended, along with their guests, as did Al Denio and Julie Brady. The remaining certificates were sent by mail. None have been returned as of yet. October’s networking event had poor attendance. Andrea Martin inquired about an email blast. Tiffany Hoerter said it went out with the DelChem Bulletin. Andi didn’t receive either so Tiffany will check the mailing list. The ChemVets talk by Paul Meekin on fracking is at 1:00. Senator Ted Kaufman was the planned speaker for December but will not be available so the education-related meeting and awards are tentatively postponed to February. John Gavanonis is the contact with the Senator. Julie noted that would mean the Blunt Scholarship recipient would receive the award after paying the remainder of her tuition. The scholarship will be paid now and the student will be acknowledged during the award ceremony early next year.

Kim Hyunh-Ba has agreed to fill out Jason Rochette’s term as Alternate Councilor.

Rakesh reviewed the publication process for the DelChem Bulletin for the committee. The possibility of transitioning to a completely electronic version will be re-examined in the upcoming year.

Rakesh and Justin Chan are working on next year’s program and budget.

Chair-Elect’s Report:
Justin will be making no major changes to the budget other than the two Carothers trophies. The cost is approximately $2000.00. Allison Moore recommended checking with the Carothers secretary for the cost.

Justin reported on the Ullyot dinner and presentation by George Whitesides.

The Ullyot Award selection is in process for 2015.

Treasurer’s Report:
Mary Jo Bock is working on the end of the year report and will send it out. Jeff Moore reminded Mary Jo that the funding for the Blunt Scholarship comes from a specific high-yield money-market account, and that the funds should be transferred to the checking account to cover the payment. Rakesh passed on a request from Sheree Gold for access to the mailbox for returned mail. Mary Jo will see that she gets the key. Jeff noted that Maggie expected NCW costs to be higher than budgeted. Mary Jo has received some, but not all of the expenses. An email motion will be sent out to cover the additional expenses once all reports are in. Mary Jo reminded the committee that her term is up in 2015 so identifying a successor is important.

Past-Chair’s Report:
Tiffany reported that the by-laws have been ratified, and elections can be done electronically. Tiffany has a list of ACS-recommended resources that she will forward to Justin.

The website is updated monthly when she receives the DelChem bulletin. Tiffany sends out reminders and information monthly unless specifically requested to do so more frequently by the Chair or a committee. The goal is to avoid sending too many emails. She appreciates receiving the monthly email address update.

Secretary’s Report:
Items covered in previous reports.

continued on page 8
**November 2014 Minutes continued from page 8**

**Reports of Committees and Related Groups:**

**Awards:** Norm reported on nominees for the Section Award and the Tillmanns-Skolnik Award. No nominees have been named for the Lillian Webster Award. Nominations are still open, and the nominees were discussed.

Julie will notify the College Student and Blunt awardees of the delay of the awards meeting.

Allison mentioned that the Delaware Section Award winner has frequently spoken at the awards meeting. This will be an alternative if Senator Kaufman is not available, or the winner will be asked to speak at another meeting.

Andi encouraged the committee to think about possible nominees from industry.

**Investments:** Todd Brugel reported that the investments are doing well for this year. Jeff reminded the committee that 5% of the investments or the yearly gain can be used for the budget.

**Education:** Andi reminded the group that the $2000 for the Innovative Project grant needs to be included in next year’s budget. She hopes to complete the project to clear the way for possible applications for spring.

Mike Stemniski will run the annual high school exam on Friday May 1, 2015 at McKean High School. He will need helpers. Andi will get information to Tiffany for the website.

Glen Hartmann at Archmere will host the Chemistry Olympiad. Planning is currently underway; the date has not been set.

**National Chemistry Week:** Allison complimented Maggie on an excellent event. Tiffany noted that Lois Weyer did a great job on getting the word out. Mary Jo mentioned that it would be helpful for older Girl Scouts who were interested to volunteer. Student volunteers currently include Lois’s troop, AXΣ alchemists in training, and high school and college students.

**Old Business:** none

**New Business:**

Nora Radu presented a request for funding from the Philadelphia Inorganic Colloquium. The plan is to meet 3-4 times per year on a Saturday for a presentation by a local chemist, beginning in February. Rakesh inquired about the level of funding, Nora estimated $200-$500 per year. Rakesh noted this could come from the investment monies. Todd asked for a link to the event, or more information. Nora will send Rakesh a link to their website, and the committee can then vote via email.

Allison and Jeff will be doing the Adventures in Chemistry demonstration at Wilson Elementary for approximately 500 students on December 23. The cost should be no more than $20.00.

Allison inquired about deadlines for the annual report. Tiffany and Rakesh will work on seeing what is needed.

Jeff bade the group farewell, and was thanked for his years of service.

Tiffany moved to adjourn, Justin seconded. The motion carried, and the meeting was adjourned at 1:00 P.M.

**Officers and Councilors Present:**

Rakesh Nambiar, Mary Jo Bock, Julie Brady, Todd Brugel, Justin Chan, Norm Henry, Tiffany Hoerter, Allison Moore, Jeff Moore, Nora Radu

**Officers and Councilors Absent:**

John Gavenonis, Martha Hollomon, Kim Hyunh-Ba, Maggie Schooler, Craig Westphal

**Others Present:**

Andrea Martin

Respectfully submitted,

*Julie E. Brady*
**Delaware ACS Networking Happy Hour**

1. Provide input to the executive committee on future events
2. Network with fellow members

**Date:** Wednesday, January 21st, 2015  
**Time:** 5:30 - 7:30 pm  
**Location:** BBC Grill and Tavern,  
4019 Kennett Pike Greenville, DE 19807  
**Cost:** FREE  
Food will be provided. Soft drinks and alcoholic beverages will be available for cash or charge at the bar.

Please register so that we can have enough food.

**Registration:**
1. Use the link provided on the section website, http://delacs/sites.org, or in the Del-Chem Bulletin distribution announcement to register online.
2. E-mail delawareacs@gmail.com to receive a link to online registration  
Members who are unable to register online should call Justin W. Chan at 302-695-3514
BOOSY OUR RATINGS
When you tell our advertisers that you saw
their ads here they have more confidence in
our newsletter’s viability as an advertising
medium. They advertise more. This sup-
ports our many activities.

PROMOTE YOUR PRODUCTS
AND SERVICES • ADVERTISE IN
THE DEL-CHEM BULLETIN

* Mass
* Elemental Analysis
NuMega Resonance Labs
numegalabs.com  P- 858-793-6057

INDEX OF ADVERTISERS
NuMega Resonance Labs ...............10
Robertson Microlit Labs ...............2
Micron ..........................................................2

The Del-Chem Bulletin readership is greater Delaware’s largest
source for chemical and biochemical
buyers. The Del-Chem Bulletin reaches
more than 4,300 readers each month. It has
been estimated that these buyers annually
purchase more than $1,250,000 of:

• Equipment
• Supplies
• Consulting Services

Placing an advertisement in The Del-Chem
Bulletin is the lowest cost method of reaching
this select audience.

For further information and other
options for promoting your company’s products and services visit:

www.mboservices.net

WANT MORE ARTICLES
When you tell our advertisers that you saw
their ads here they have more confidence in
our newsletter’s viability as an advertising
medium. They advertise more. This sup-
ports our many activities.
Delaware Academy of Chemical Sciences –
We are now ten years old and still alive. Solito Sumulong, then at DuPont’s Stine-Haskell site, joined me in a quest to start a Chemistry Museum and Outreach Center in Wilmington. Then the economy went south and donors failed to appear. Solito moved to a new job in the Minneapolis area but continues to serve on our Board.

I have continued to serve as President but have decided that it is time for new leadership. We recently held elections for 2015 and I am pleased to announce that Ed Adams, a DuPont chemist, is our new President. He earned his PhD in Organic Chemistry at the University of Wisconsin before joining the company about 25 years ago.

Continuing to serve on our Board are Norm Henry III as Vice President, Marianne Cinaglia as Treasurer and Martha Hollomon as Secretary. We shall continue our public outreach efforts promoting chemical knowledge. We would appreciate your support! If you can’t provide your time and talents, we are a 501(c)(3) nonprofit. That means that you can get a tax benefit by donating cash, Au bars, Andrew Wyeth paintings, real estate, your wine cellar or other treasures.

Our next public outreach event will be at the Invention Convention held at the Hagley Museum and Library. We shall be there on January 19. Mike Stemniski will perform several Chem Demo Shows, always fun and very popular.

Congratulations to Pat Confalone! He just won another two-year term on our ACS Board of Directors. He continues to serve after a long and successful career at DuPont.

National Chemistry Week was celebrated on November 1 by our Delaware Section at The Independence School. Councilor Maggie Schooler did an excellent job as Chair of this event. We had the largest turnout in recent years with a huge group of Girl Scouts. Mike Stemniski put on another spectacular Chem Demo Show with color changes in solutions, flames, explosions, etc. He caused a pig to fly and things to disappear. He did everything but drink the liquid nitrogen.

DACS had two tables at the event dealing with candy and sugar. Loraine Snead was in charge of our effort, assisted by her colleague Yushaneen Simms plus Norm Henry, Martha Holloman and Al Denio.

College Football teams actually involve chemistry, if not chemistry majors. The “pigskin” is inflated with two elements. Players drink beverages with added chemicals to help sustain their energy levels and electrolyte balance. Their equipment is based on a variety of polymeric materials.

These football games dominate our fall Saturdays and can attract over 100,000 fans to impressive stadiums. Did I mention money? Really big money? Tickets, programs, food, beverages and TV broadcast fees help to pay the coaches salaries which boggle my mind! Why do some universities pay the football coach more than their President? And then there are faculty salaries, a small fraction of what winning coach demands.

Do you know that the average compensation for a head coach in the Southeastern Conference is $3.75 million? The Big Ten average is $2.83 million. It appears that the term “Higher Education” must refer to football coach’s compensation. Maybe tuition costs would be lower without football? And perhaps college students could spend more time in the library without college football? This is a strange world in which we live! Don’t hold your breath while waiting for this to change – football is part of our culture.

Happy New Year
Al Denio
January 2015

1 Deadline for submission for February Del-Chem Bulletin
8 Chemical Heritage Foundation Priestly Society Luncheon Special Guest Speaker – Ed Richman, President Richman Chemicals Inc.
12 Science on Tap at National Mechanics “The Floor is Lava (Literally)”
14 Chemical Consultants Network Meeting “Creativity for Consultants”
20 ChemVets Meeting “Biomimicry – a powerful driver for new material concepts, designs and solutions” Prof. Ross A. Lee
21 Delaware Section ACS Meeting Networking Happy Hour – BBC Grill and Tavern