

the Catalyst



Official publication of the Philadelphia Section, ACS
<http://philadelphia.sites.acs.org>

November 2017
Volume 102, No. 9



Ullyot Lecturer
Dr. Marcia McNutt
President, National Academy of Sciences

HIGHLIGHTS

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ADVANCE NOTICE

JANUARY MEETING

Thursday, January 18, 2018

**Joint Meeting of the Philadelphia Section ACS and the
Chem Pharma Professional Association**

Speaker: Richard Harris
Rutgers University

Yardley Inn
82 East Afton Ave.
Yardley, PA 19067

See the JANUARY issue of *the Catalyst* for details,
call the Section Office at (215) 382-1589 or email PhilaACS@gmail.com.

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**Comments
From
the
Chair**



Deborah Cook

This is my last column as Chair of the Philadelphia Section ACS. It has been an honor serving as your Chair. I have appreciated all the support I have received from the other Officers, the Board and the members. As I reflect on the year's activities, I want to commend the various Committees and Groups that have had robust programs and events. Our Younger Chemists continue to engage with the Graduate Student Poster Session, Programs in a Box, and other networking opportunities. The Women Chemists' Committee, under the guidance of Kathy Shaginaw, continues to engage 6th-grade girls with the PAGES™ events. Career Services, in collaboration with the Princeton Section and with support from ACS National, presented a program on non-traditional careers for chemists. Our Communications Committee has been very active with a new Committee Chair, Liliana Suarez and the Education and Outreach Committee has worked on many events under the guidance of its Chair, Bill Smith. These are just a few of the highlights of the Section's program.

Over the course of the year I tried to organize varied programming for the regular monthly meetings. Many of the meetings were very well attended with 50 or more attendees. This month we pay tribute to Glenn and Barbara Ullyot whose largesse enables the Ullyot Lecture. As always, we work with our partners, the Chemical Heritage Foundation, the University of the Sciences, the University of Pennsylvania, and the Delaware Section. This year's speaker is Dr. Marcia McNutt, President of the National Academy of Sciences. The lecture and reception will be held at and hosted by the Chemical Heritage Foundation. I hope to see many of you at this event.

Finally, I want to wish Elizabeth (Lizzy) Wagoner, our incoming Chair, well as she assumes the responsibility of leading this most venerable and prestigious Section. At this time the election of Officers, Directors and Councilors has not taken place. I am sure Lizzy will receive as much support from her Board, co-officers, and the members as I have.

It is hard for me to believe how quickly this time has flown by. In closing, I want to wish you peace, joy and well-being as we wind down the year and look ahead to 2018.

NEWS ATOMS—Alan Warren

DEATHS

Louis E. Goodman, January 14, 2017. No further details available.

Albert C. Condo, Jr., retired chemist and professor, April 9th at 92. He retired from Atlantic Richfield Company after 34 years of service. He then became adjunct professor of chemistry at Villanova University, serving for over 20 years.

NOVEMBER MEETING

Board of Directors Meeting
Chemical Heritage Foundation
4:00 – 5:00 PM

Ulliot Public Affairs Lecture

Thursday, November 16th

6:00 – 8:00 PM

Dr. Marcia McNutt
President of the National Academy of Sciences

Guiding the Best Policy Decisions: Evidence Matters

Chemical Heritage Foundation
315 Chestnut Street
Philadelphia, PA 19106

Lecture 6:00 PM
Reception 7:00 PM

The Lecture and Reception are Free

Registration at
<https://www.eventbrite.com/e/ullyot-lecture-marcia-mcnutt-tickets-35264534171>

More Information at
<https://www.chemheritage.org/event/ullyot-lecture-guiding-the-best-policy-decisions-evidence-matters>

SPEAKER'S ABSTRACT AND BIOGRAPHY

Marcia McNutt, PhD
President of the National Academy of Sciences

Guiding the Best Policy Decisions: Evidence Matters

Abstract: Making sound policy decisions about how to invest scarce public resources has never been more urgent. But in this “post-truth” world, is science still a valued factor? How has the application of science made a difference in the quality of our lives, health, economy and safety? And how can we help others understand the role of science in the benefits we are enjoying now and the promise of science to positively affect the quality of our lives in the future?

Biography: Dr. Marcia McNutt is a geophysicist and president of the National Academy of Sciences. From 2013 to 2016, she served as editor-in-chief of the *Science* journals. Prior to joining *Science*, she was director of the US Geological Survey (USGS) from 2009 to 2013. During her tenure, the USGS responded to a number of major disasters, including earthquakes in Haiti, Chile and Japan, and the Deepwater Horizon oil spill. McNutt led a team of government scientists and engineers at BP headquarters in Houston who helped contain the oil and cap the well. She directed the flow rate technical group that estimated the rate of oil discharge during the spill's active phase. For her contributions, she was awarded the US Coast Guard's Meritorious Service Medal.

Before joining the USGS, McNutt served as president and chief executive officer of the Monterey Bay Aquarium Research Institute (MBARI), in Moss Landing, California. During her time at MBARI, the institution became a leader in developing biological and chemical sensors for remote ocean deployment, installed the first deep-sea cabled observatory in US waters, and advanced the integration of artificial intelligence into autonomous underwater vehicles for complex undersea missions.

McNutt began her academic career at the Massachusetts Institute of Technology (MIT), where she was the E.A. Griswold Professor of Geophysics and directed the Joint Program in Oceanography/Applied Ocean Science & Engineering, jointly offered by MIT and the Woods Hole Oceanographic Institution. Her research area is the dynamics of the upper mantle and lithosphere on geologic time scales, work that has taken her to distant continents and oceans for field observations. She is a veteran of more than a dozen deep-sea expeditions, on most of which she was chief or co-chief scientist.

McNutt received a BA in physics from Colorado College and a PhD in earth sciences at the Scripps Institution of Oceanography. Her honors include membership in the American Philosophical Society and the American Academy of Arts and Sciences. She holds honorary doctoral degrees from the Colorado College, the University of Minnesota, Monmouth University, the Colorado School of Mines and Uppsala University. In 1988, she was awarded the American Geophysical Union's Macelwane Medal for research accomplishments by a young scientist, and she received the Maurice Ewing Medal in 2007 for her contributions to deep-sea exploration.

McNutt served as president of the American Geophysical Union (AGU) from 2000 to 2002. She was chair of the Board of Governors for Joint Oceanographic Institutions, responsible for operating the International Ocean Discovery Program's vessel *JOIDES Resolution* and associated research programs. She is a fellow of AGU, the Geological Society of America, American Association for the Advancement of Science, and International Association of Geodesy.

FROM THE MID-ATLANTIC REGION BOARD — *Tony Addison*

The MAR Board met at the 2017 MARM (Mid-Atlantic Regional Meeting) in Hershey in June, and at the ACS National Meeting in Washington in August.

The 45th MARM in Hershey, PA (June 4-6) was quite successful, with approximately 890 registrations, 240 posters and 400 oral presentations.

Pending finalization of the 2017 results, the Mid-Atlantic Region's budget is in a healthy state, with total financial assets of over \$220,000. All MARMs held since 2003 have returned a budget surplus to the host Section and the Region.

In lieu of a 2018 MARM, there will be a Regional Awards and Chemagination event. This will be hosted by the Lehigh Valley Section, and likely held on June 2nd or 3rd.

The 2019 MARM will be held at the University of Maryland, Baltimore County, in Catonsville. This was the site of the 2012 MARM, ably helmed by Dr. Paul Smith, who will again be the event Chair (Program Co-Chairs B. Arnold and T. Tsukamoto).

The Board is highly interested in hearing from sections which might be interested in hosting a MARM in 2020.

CALL FOR NOMINATIONS



The Philadelphia Section, American Chemical Society AWARDS FOR EXCELLENCE IN PRE-COLLEGE TEACHING

The Philadelphia Section of the American Chemical Society will honor two outstanding science teachers with its Awards for Excellence in Pre-College Science Teaching. One award will be given to a full-time educator involved in teaching science in grades K-8. The second award will be given to a full-time educator at the secondary level (grades 9-12) who teaches chemistry. Nominees must teach in the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

Nominations for 2018 will be accepted until February 22, 2018.

Award for Excellence in Pre-College Teaching Nomination Packet Requirements

- A **Nominator Recommendation** of not more than 750 words submitted by the nominator according to the guidelines outlined on the Recommendation Form.
- A **current curriculum vitae or resume** that includes a list of the nominee's honors, professional activities, and additional evidence of service to the profession. This must be limited to no more than two pages and the activities listed must have occurred within the past five years.
- A **statement by the nominees** of not more than 500 words that describes the nominee's teaching philosophy or commitment to the profession.
- **At least one, but not more than three, letters of support.** One letter, of no more than 400 words, must be from the teacher's current principal or supervisor. Additional letters of support, of no more than 400 words, may be sent by colleagues, members of the American Chemical Society who are familiar with the nominee's achievements, or former students and parents of former students.

The total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@gmail.com or a copy of the nomination materials may be mailed to:

Chair, Awards Committee
Philadelphia Section, ACS
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323

The award recipient will be honored at our May 2018 Section meeting with a plaque and honorarium.

CALL FOR NOMINATIONS



Philadelphia Section, American Chemical Society AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING IN THE CHEMICAL SCIENCES

The Philadelphia Section of the American Chemical Society will honor an outstanding undergraduate teacher with its Award for Excellence in Undergraduate Teaching in Chemical Sciences. The award will be given to a full-time educator involved in teaching an undergraduate course in the chemical sciences (chemistry, biochemistry). Nominees must teach in an institution that is within the Philadelphia Section's geographic area (Philadelphia, Montgomery, Delaware, Chester, Bucks, Burlington and Camden counties).

Nominations for 2018 will be accepted until February 22, 2018. The nomination should consist of a letter of nomination, the nominee's resume and two letters of recommendation. Other supporting information, such as students' comments, is welcome. The total nomination package should not exceed 30 pages. The nomination package may be emailed to PhilaACS@gmail.com or the nomination materials may be mailed to:

Chair, Awards Committee
Philadelphia Section, ACS
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323

For more information, please contact the Philadelphia Section, ACS office: phone: (215) 382-1589 or email: philaACS@gmail.com

The award recipient will be honored at our May 2018 Section meeting with a plaque and honorarium.

THE ACS PHILADELPHIA SECTION

Presents

An Evening of Networking with a Networking Workshop

Monday, November 6, 2017
Fox & Hound King of Prussia
160 North Gulph Road
Suite 211
King of Prussia, PA 19406

ACS Career Pathways workshop on "Networking: How To Get Started"
from 4:00 PM to 5:00 PM
Networking from 5:00 PM to 9:00 PM

Join the ACS Philadelphia Section for an evening of networking!

Nervous about networking? We have you covered! ACS Career Consultant and Presenter Joe Martino will present "Networking: How To Get Started", an *ACS Career Pathways* workshop that you would typically find at ACS National or Regional Meetings.

Following the workshop, you can either practice your newly-discovered networking prowess, or otherwise come and join us after the workshop to network with your fellow chemists in the Greater Philadelphia Area. To participate in the workshop, please register using this website so we have a headcount for materials.

If you are only interested in attending the networking event, then no registration is necessary -- just show up and have fun!

To register, please visit
<https://acsphillykopnetworking1.eventbrite.com>

Fox & Hound King of Prussia is located in the King of Prussia Mall complex, and is readily accessible from I-76, I-276, US 202, US 422 and I-476. There's plenty of free parking available.



SAVE THE DATE

YCC POSTER SESSION

RESEARCH SYMPOSIUM FOR LOCAL HIGH SCHOOL, UNDERGRADUATE, GRADUATE AND POST DOCTORAL STUDENTS

**TENTATIVE DATE TUESDAY, APRIL 10TH
6-9PM**

TEMPLE UNIVERSITY SERC BUILDING LOBBY
1925 N. 12TH STREET, PHILADELPHIA, PA 19122

Join the local Philadelphia section of the Younger Chemists Committee of the American Chemical Society for an evening of research from the local region!

Prizes for top posters! Opportunities to network with local schools and businesses!

More details coming soon!

FOR MORE INFORMATION CONTACT: megan.vanvliet@temple.edu





The Philadelphia Section of the American Chemical Society

Presents

The Herb Bassow Memorial

CHEMISTRY DEMONSTRATIONS

FOR

CHILDREN OF ALL AGES

"Genie in the Bottle," the "Circle of Fire," "Rainbow glasses," "Bottle Rocket," "Liquid Nitrogen Icecream," "Instant Hot Lather," "Balloon-on-a-Stick," "Incredible Shrinking Balloons," the "Chromatography T-shirts," and much, much more...

at

Beury Hall

Temple University

1901 N 13th St

Philadelphia, PA

Wednesday, December 13, 2017

11 AM to 2 PM

Information: Dr. Daniele Ramella at Daniele.ramella@temple.edu or (215) 204-1931
Dr. Jaskiran Kaur at Jaskiran.kaur@temple.edu or (215) 204-7161

Cost: Free and open to the public

Everyone Welcome!

Information concerning the Philadelphia Section activities can be found on the Philadelphia Section Web
Page: <http://philadelphia.sites.acs.org/>

691st BOARD OF DIRECTORS MEETING
June 22, 2017
Union League, Philadelphia, PA

Present: Melissa Cichowicz, Deborah Cook, Jason Cross, Anne DeMasi, Alan Heldon, Kathie Lysko, Joseph A. Martino, Kathleen Thrush Shaginaw

Absent: David Cichowicz, Ella Davis, Christie McInnis, Judy Summers-Gates, James Tarver

Excused: Michael Castaldi, Rick Ewing, Victor J. Tortorelli, Lee Hoffman Craig McClure, Elizabeth Wagoner

The 691st Board Meeting of the Philadelphia Section, ACS, was called to order at 3:05 PM. A quorum was not present.

As a quorum was not present the Minutes of the March and May 2017 Board of Directors Meetings were tabled for electronic submission and vote.

1. Officers

A. Chair, Deborah H. Cook, deborahcook72@gmail.com

1. The September Meeting will be in Doylestown at the Pa. Biotechnology Center. The speaker will be Dr. Dennis Gross.
2. The October 19th Meeting, at West Chester Univ., will be for presentation of the Section Award.
3. The November 16th Meeting, at Chemical Heritage Foundation, will be the Ulliot lecture. The speaker will be Dr. Marcia McNutt, Pres. Nat'l Academies.
4. Communications Committee meeting will be June 26th at Pepper's in King of Prussia.

B. Secretary, Alan Heldon, alan.heldon@live.com

No report.

D. Treasurer, David Cichowicz, cichowic@lasalle.edu

No report

2. Committees

A. Career Services, Joe Martino, acsphillycareerservices@gmail.com

1) By way of reminder, Career Services has reserved Tuesday September 12, 2017 from 4:00 PM to 9:00 PM at the Community Center of the Giant Super Food Store in Willow Grove, PA, for the return of the Career Club. An appointment style format using multiple ACS Career Consultants and the use of two of the Community Center's smaller rooms will be tested. Career Services will discuss the logistics of this event. Food will need to be purchased for career consultants working the event.

2) Career Services is currently discussing a Fall Career Event, with content to be determined, with an emphasis on networking. To facilitate full participation, Career Services would like to market this event as a Section event. The event will consist of the networking module of the ACS Career Pathways workshop followed by a speed networking session. Logistics to be considered:

- a. Date and time of event – to be determined
- b. \$100 Stipend to be paid to module presenter (most likely Joe Martino)
- c. Expenditures for module handouts
- d. Venue fees.

3) Lori Spangler and Joe Martino will be supporting Temple University's career activities efforts in September. Joe Martino is currently scheduled to support Temple's speed networking event on September 14th, and Lori Spangler and Joe Martino are scheduled to support Temple's Career Fair on September 22nd. These events are presented by Temple University's College of Science and Technology Career Services group as part of the working relationship between Temple and Career Services.

3. Other Business

The Board was advised of the resignation of Judith Cohen as Director and Alternate Councilor. Both offices are for the term 2015-2017. Replacement procedure was discussed.

There being no additional business before the Board, the meeting, on motion, was adjourned at 3:33 PM.

Respectfully submitted, Alan R. Heldon, Secretary, alan.heldon@live.com

CHEMICAL CONSULTANTS NETWORK

NOVEMBER 8, 2017 MEETING

BUSINESS DEVELOPMENT FOR CONSULTANTS

Chris Owens – OppNex

DATE & TIME: Wednesday, November 8th, at The Cynwyd Club, Bala Cynwyd, PA
Networking, 5:30 PM; Dinner, 6:30 PM; Talk and Business Session, 7:30 PM

[Click here to register](#)

Abstract:

“Feast or Famine” is a common dilemma that many independent consultants face when trying to survive on their own. While you’re busy executing services for your client, you do not have time, nor make time, to develop new business before the contract ends. Other consultants may just feel that it is not in their nature to do business development, or don’t desire to participate in “sales.” Join us for a presentation where you will learn how to utilize basic business development techniques and strategies to fill your pipeline while leveling the “ups and downs” of being a professional consultant. We will discuss what business development means for consultants and why it is not considered “sales,” as well as many other topics, including how both networking and LinkedIn can be used as tools in business development.

Biography:

Chris Owens started his career as a process engineer in the biopharmaceutical industry, which led to a solid foundation for his later role as a business development executive, serving a wide range of manufacturing industries including food, foundries, chemicals, defense electronics, and pharmaceutical. He sits on multiple boards at Drexel University, where he earned his bachelor's degree in chemical engineering. Mr. Owens is now president of a consulting firm that helps owner clients bring products and technology to their markets by using multidiscipline, problem-solving teams and owner representatives to implement manufacturing projects.

Location: The Cynwyd Club, 332 Trevor Lane, Bala Cynwyd, PA 19004. [MAP DIRECTIONS](#)

Reservation: [Click here to register to attend the event](#), or e-mail CCNReservations@aol.com or call the CCN phone number at (877) 326-2959 and leave a message. Fee, including food and beverages, is \$35 by reservation/cancellation deadline: **Saturday, November 4th**.

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PLEASE VISIT <http://www.chemconsultants.org/>

Are You Getting the Benefits of CCN Membership or Event Participation?

THE CHEMICAL CONSULTANTS NETWORK PROVIDES VALUABLE TOOLS FOR MEMBERS BEYOND THE MEETINGS AND NETWORKING. CHECK OUT OUR:

- [Valuable past presentations](#) – including methods and techniques on how to do consulting
- [Consultants' Directory](#) – find consultants who can help you solve your problems & meet your needs
- [Blogs](#) – did you know that chemists & chemical engineers can blog? Yes! On a broad range of subjects of value to all of us...
- [Resources](#) – useful & helpful information and references
- [Join!](#) Most valuable – post your consulting practice information – and have greater visibility!

If you'd like to speak with one of our network members, come to one of our meetings or call 267-666-0949.

DIRECTORY OF SERVICES

CAREER DEVELOPMENT

Being a part of one of our teams can help you develop organizational and meeting skills as well as help you to network with people from the largest area companies. Public Relations, such as sending out meeting notices and press releases, can help you to develop a network and help you get noticed!

All committees are looking for new members and several are looking for "take charge" chairs. Some, like the Teller's Committee, involve minimal work—one night per year and pizza provided. Others, like positions on Communications or Social Committees, involve one or two hours per month.

Committee details can be found at:

www.membership.acs.org/p/philadelphia

or by calling the Philadelphia Section Office (215) 382-1589.

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- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- www.mboservices.net
- <http://membership.acs.org/p/philadelphia/jobs/>



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PHILADELPHIA SECTION, ACS CURRENT CALENDAR OF ACTIVITIES

| Date and Time | Event | Location/Information |
|---|--|--|
| Friday, November 3 11 AM | Chemistry Seminar, Tim Valden (Rowan University): <i>Ionic Liquids as Solvents for Proton Transfer and Solutes for Protein Destabilization</i> | Drexel University Department of Chemistry 32 S. 32 nd Street Philadelphia, PA 19104 Location: Disque 109 |
| Saturday, November 4 9 AM – 1:30 PM | PAGESTM, Dr. Stacey Barnaby (Dow) – Keynote Speaker | Chestnut Hill College 9601 Germantown Avenue Philadelphia, PA https://pagesprogram.org/events/ |
| Monday, November 6 4 – 5 PM Course 5 PM Networking | YCC Networking Event | The Fox and Hound King of Prussia, PA http://phillyycc.org/ |
| Wednesday, November 8 5:30 PM Networking 6:30 PM Dinner 7:30 PM Talk | Chemical Consultants Network Meeting, Chris Owens (OppNex): <i>Business Development for Consultants</i> | The Cynwyd Club 332 Trevor Lane Bala Cynwyd, PA 19004 Registration and additional information is available at http://chemconsultants.org/event-2686908 |
| Thursday, November 9 5 PM Networking Reception 6:15 PM Symposium | Joseph Priestley Society Symposium/Seminar, Ana Persic (UNESCO): <i>Chemistry Enabling Life: Clean Air, Clean Water, Clean Energy</i> | Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 https://www.chemheritage.org/event/joseph-priestley-society-symposium-november-2017 |
| Friday, November 10 11 AM | Chemistry Seminar, Roald Hoffmann (Cornell University): <i>Two New Games for Carbon, We Hope</i> | Drexel University Department of Chemistry 32 S. 32 nd Street Philadelphia, PA 19104 Location: Disque 109 |
| Monday, November 13 6 PM Social Hour 7 PM Talk | Delaware Valley Mass Spectrometry Discussion Group November Meeting, Olga Vitek (Northeastern University): <i>MStats: An R package for Statistical Analysis of Quantitative Ms-Based Proteomic Experiments</i> | 154 Mendel Hall, Villanova University, Villanova, PA. Please RSVP to Xi Qiu (XQiu2@its.jnj.com) by 11/9/17 Additional information is available at www.dvmsdg.org |
| Monday, November 13 to Wednesday, November 15 | Eastern Analytical Symposium and Exhibition | Crowne Plaza Princeton – Conference Center 900 Scudders Mill Road Plainsboro Township, NJ 08536 http://eas.org |
| Thursday, November 16 6 PM Lecture 7 PM Reception | Philadelphia Section, ACS Monthly Meeting, Ulliyot Lecture, Marcia McNutt (President, National Academy of Sciences): <i>Guiding the Best Policy Decisions: Evidence Matters!</i> | Chemical Heritage Foundation 315 Chestnut Street Philadelphia, PA 19106 https://www.chemheritage.org/event/ulliyot-lecture-guiding-the-best-policy-decisions-evidence-matters |
| Thursday, November 16 5:30 – 8:30 PM | Catalysis Club of Philadelphia, Aleksey Yezerets (Cummins): <i>Kinetic Peculiarities of Cu-Zeolite SCR Catalysts and Their Practical Implications</i> | Crowne Plaza Wilmington North 630 Naamans Road Claymont, DE 19703 http://catalysisclubphilly.org/program/ |
| Thursday, November 30 5:30 PM Cocktails 6 PM Dinner 8 PM Seminar | Philadelphia Organic Chemists Club, Stephen L. Buchwald (MIT): <i>Palladium-Catalyzed Carbon-Heteroatom Bond-Forming Reactions for Organic Synthesis – from Small to Big</i> | Carolyn Hoff Lynch Lecture Hall Chemistry Building University of Pennsylvania 34 th and Spruce Streets Philadelphia, PA http://www.pocclub.org/ |
| Please check the individual websites for additional updated information | | |