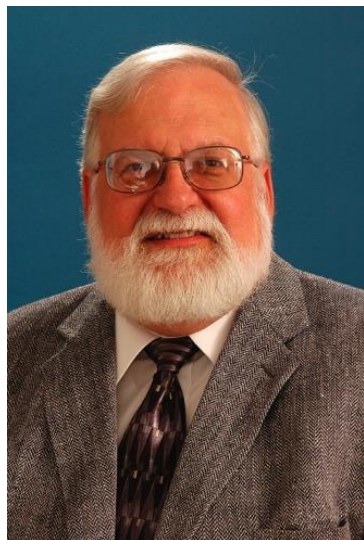


the Catalyst



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

May 2018
Volume 103, No. 5



May Meeting
Dr. Andy Jorgensen
Recently Retired Associate Professor of
Chemistry & Environmental Sciences,
University of Toledo
Senior Fellow, National Council for Science
and the Environment

HIGHLIGHTS

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ADVANCE NOTICE

JUNE MEETING
Thursday, June 21, 2018
11:15 AM-3:00 PM

Luncheon Honoring 50-, 60- and 70-Year Members

The Union League
140 S. Broad Street
Philadelphia, PA 19102

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

the Catalyst

ACS Philadelphia Section

Founded April 15, 1899

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**Comments
From
the
Chair**



Lizzy Wagoner

Although winter has been overstaying its welcome, spring is finally starting to arrive in Philadelphia. The Spring National ACS meeting was recently held in New Orleans, LA and was very well attended. Over 13,000 scientists participated in the meeting and the exposition, committee meetings, award ceremonies, lectures, networking events, and poster sessions were all a great success. We had many attendees from the Philadelphia ACS Section, but I would like to particularly thank our councilors who give our area a voice. This month, registration opens for the Fall Meeting, which will be taking place in nearby Boston, MA.

With the spring weather also come a lot of exciting new events. In April we celebrated Earth week, had a fantastic poster session hosted by the YCC, the Philadelphia Science Festival, and many more chemistry-filled happenings. Our May meeting at the University of the Sciences in Philadelphia on Thursday, May 17th will celebrate talented chemical educators and we will present the Awards for Excellence in Pre-College and Undergraduate Teaching. Dr. Andy Jorgensen, Associate Professor Emeritus of Chemistry at the University of Toledo, will be our speaker and the title of his talk is *Global Climate Disruption: How Do We Know? What Can We Do?* More details about the May event are contained in this issue of *the Catalyst*. I am excited to honor these teachers and learn more about Climate Change. I hope to see you there!

2018 Mid Atlantic Regional Meeting MARM 2018
NanoMARM - Small Meeting, Big Results !

A One Day Meeting for the Mid-Atlantic Region
Sunday, June 3, 2018
Iacocca Hall, Lehigh University, Bethlehem PA

<http://www.marmacs.org/2018/marm2018.html>

General Meeting Chair, Dr. John Freeman: nanomarm2018@gmail.com

Poster Sessions: 3:00-4:00PM, and 5:00-6:00 PM

Chemagination 12:00-5:00PM

Oral Sessions 12:00-2:00PM and 2:00-4:00PM

Plenary Speaker - 4 PM: Dr. Jenny Rampling, Assistant Professor, History of Science Program,
Princeton University:

George Ripley and the Place of English Alchemy in Early Modern Europe

Awards Dinner 6:00 -8:00 PM

NEWS ATOMS—*Alan Warren*

Raymond Gorte, professor in Penn's department of chemical and biomolecular engineering, was elected to the National Academy of Engineering. **Daniel Hammer**, professor in the same department, received a 2018 Provost's award for distinguished PhD teaching and mentoring.

DEATHS

Virginia L. Yonan, retired high school chemistry teacher, January 9, 2018 at 95. She worked briefly at the Hospital of the University of Pennsylvania as a research assistant on hepatitis. She also was an instructor at Penn's school of allied medical services, teaching diagnostic chemistry. She then obtained her master's degree in education at Temple University and taught briefly at Media High School before joining the faculty at Springfield Township Senior High School in Montgomery County where she taught chemistry and physics for 25 years. She was an ACS member for over 60 years.

Anthony L. "Tony" Tumolo, chemistry professor, March 7th at 87. He taught at Camden County Community College. He also was founder and director of the Manoa Community Library. Tony was a 50+ year member of ACS.

Hobart B. "Bart" Sullivan, organic chemist, March 19th at 84. He was manager and director in planning operations at Glaxo Smith Kline for 18 years. He also taught at Penn, Drexel and Saint Joseph's.

James J. Harris, catalysis chemist, March 23rd at 88. He served two years at the United States Army Chemical Center and later joined Koppers Company. He then moved to Atlantic Richfield and received an award for outstanding technical achievement in the field of catalysis. Later he worked for Chem Services in West Chester. He obtained 20 patents.

Philadelphia Section of the American Chemical Society

Board of Directors Teleconference Meeting

Tuesday, May 15th, 2018

5:00 – 7:00 PM

More information will be available on the website soon

MAY MEETING

THE PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY

presents

Presentation of the 2018 Philadelphia Section Teaching Awards

Speaker: Dr. Andy Jorgensen

Associate Professor Emeritus of Chemistry
University of Toledo

Global Climate Disruption: How Do We Know? What Can We Do?

Thursday, May 17, 2018

University of the Sciences
Integrated Professional Education Complex (IPEX)
4306 Woodland Avenue
Philadelphia, PA 19104

5:15-6:00 PM Registration/Reception, IPEX 239/240
6:00-7:30 PM Lecture and Awards, IPEX 239/240
7:30-9:30 PM Dinner, IPEX Atrium

Dinner Cost and Registration:

<https://www.eventbrite.com/e/philadelphia-section-ac-s-event-tickets-45313398595>

DIRECTIONS: <http://www.usp.edu/about/our-campus/maps-directions.html>

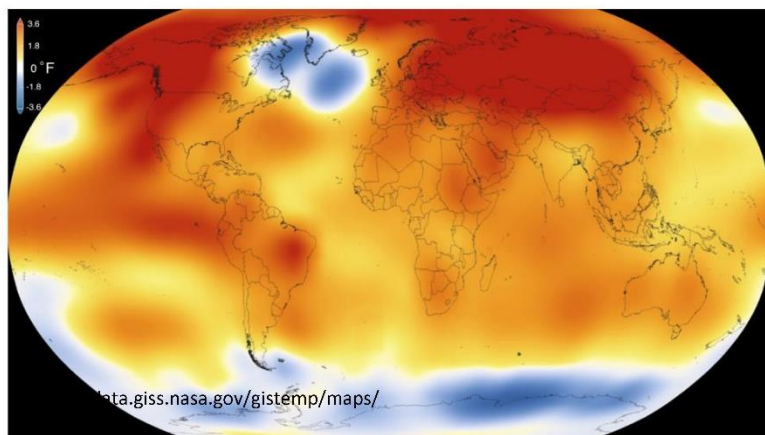
PARKING: Free, between McNeil and IPEX; follow to parking area.

Global Climate Disruption:

**How Do We Know?
What Can We Do?**

Dr. Andy Jorgensen

Recently Retired Associate Professor of Chemistry &
Environmental Sciences, University of Toledo
Senior Fellow, National Council for Science and the
Environment



<http://data.giss.nasa.gov/gistemp/graphs>

Climate change is a very intense topic in our country which finds its way into political, business and social conversations, often with vocal disagreement among participants. This presentation will give background information about the phenomenon and methods which have been used to characterize these changes. The human dimension of the problem will be emphasized. We will then consider solutions to the problem. Participants will be able to share their views using personal response devices and to compare their replies to those of more than 3,000 members of previous audiences.

Dr. Jorgensen spent a sabbatical leave as Senior Fellow at the National Council for Science and the Environment (NCSE). He developed climate change curricular materials which has been developed into a web-based repository with over 300 resources for students and educators (<https://camelclimatechange.org/index.html>) His work on climate change education has been supported by grants from NASA and NSF.

He earned a Ph.D. in Physical Chemistry from the University of Illinois at Chicago and a B.S. in Chemistry from Quincy University. He completed a postdoctoral appointment in chemical education at the University of Illinois at Urbana-Champaign. He served as chair of the American Chemical Society's (ACS) Committee on Education and is the councilor of the Toledo Local Section of ACS.

He was selected as a 2012 American Chemical Society Fellow. In 2013 he received an American Chemical Society-Committee on Environmental Improvement Award for Incorporating Sustainability into Chemistry Education. He has received a University of Toledo Outstanding Teaching Award and was twice appointed as a Master Teacher in the College of Arts and Sciences. In 2017 he received an Edith Rathbun Outreach and Engagement Excellence Award from the University of Toledo.



NOMINATIONS INVITED FOR THE 2018 PHILADELPHIA SECTION, AMERICAN CHEMICAL SOCIETY AWARD

The Philadelphia Section invites its members and regional and topical groups to consider recommending candidate(s) for the Philadelphia Section Award.

This Award recognizes an individual, “who, by conspicuous scientific achievement through research, has made important contributions to man’s knowledge and thereby aided the public appreciation of the profession.” Any member of the American Chemical Society, Philadelphia Section, may be nominated for this award. Recent awardees include: Feng Gai (University of Pennsylvania), Donna Huryn (University of Pennsylvania) and Anthony W. Addison (Drexel University).

INSTRUCTIONS FOR SUBMITTING NOMINATION

- (1) The nominator should provide a CV of the nominee, showing education, employment and/or academic history, a list of publications, presentations and patents; and a record of other accomplishments pertinent to consideration for this award.
- (2) One or two seconding letters (at least one of which should be from a person in an organization other than that of the nominee) should be requested in support of the nomination.
- (3) Nominators and seconders should be identified with addresses, email and telephone numbers so that they can be contacted, if necessary, for additional information.
- (4) Unsuccessful nominees from previous years may be renominated. In fairness to the nominee, however, renominations must be accompanied by an updating of the nominee’s biographical data and list of accomplishments in order to make the nomination competitive. Unsuccessful nominees who have been considered three years in a row should not be renominated for the fourth year in succession without prior consultation by the nominator with the chair of the Awards Committee.

Nomination forms are available from the Section Office at:

Philadelphia Section, ACS
Department of Chemistry
University of Pennsylvania
Philadelphia, PA 19104-6323
(215) 898-6042; email PhilaACS@gmail.com

The completed packet of nomination materials may be emailed to PhilaACS@gmail.com or mailed by **June 1st** to Chair, Awards Committee, at the Section Office address above.

George Arbocus Education Course
“Fuel Efficient Engines and Engine Oil Design”

Where: Simeone Foundation Automotive Museum

6825 Norwitch Drive, Philadelphia PA

When: Wednesday, May 2nd, 2018 (9:00 AM – 3:00 PM)

Price: \$85 (includes lunch & museum tour)

Register at philadelphia-stle.org/event/2nd-annual-george-arbocus-education-course/

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SIMEONE FOUNDATION
AUTOMOTIVE MUSEUM

Antron Brown



DSR

stlePhiladelphia
Society of Tribologists and Lubrication Engineers

**THE ACS PHILADELPHIA SECTION
Presents**

THE CAREER CLUB

Tuesday, May 15, 2018

**The Community Center of the Giant Super Food Store
315 York Road
Willow Grove, PA 19090**

Join us as we offer our members a free opportunity to speak with an ACS Career Consultant. You may have your resume reviewed, go over your interview skills or just brainstorm with an ACS Career Consultant.

Regardless of whether you're a finishing undergraduate or graduate student, an experienced professional, or someone who is in a period of career transition, the ACS Career Consultants at The Career Club are here to help you!

NEW!!!! A representative from the Philadelphia Law Firm Getson & Schatz will be present at this Career Club meeting to provide free information on a one-time-only basis to those who have concerns about immigration law as well as to provide contact information should you wish to retain Getson & Schatz for legal counsel. You can register for this service through this website. You can register to speak with the Getson & Schatz representative, career consulting, or both! For more information on Getson & Schatz and the services that they offer, please visit <http://click4immigration.com/>

Please note that registration for this event is in the form of one, 30-minute long appointment. Pick the time that is most convenient for you, and please arrive at the Community Center lounge area 15 minutes before your appointment. Come and take advantage of this opportunity for you to take your career goals and aspirations to the next level! For more information and to schedule an appointment, please visit <https://acsphillycareerclub11.eventbrite.com>

The Community Center of the Giant Super Food Store is located on York Road (PA 263) in Willow Grove, Pennsylvania. It is readily accessible from I-276, I-476, PA 309, PA 611 and US 1. The Giant also features a dine-in food facility as well as a coffee shop.

CHEMICAL CONSULTANTS NETWORK

MAY 9, 2018 MEETING

TAX CUTS AND JOBS ACT: BUSINESS AND INDIVIDUAL IMPACT

Robert B. Simpson, MS, CPA, Managing Partner, Brinker Simpson & Company, LLC

DATE & TIME: Wednesday, May 9th 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: On December 22, 2017, the largest federal tax reform law in more than 30 years was approved by Congress in the Tax Cuts and Jobs Act (TCJA). This major tax legislation will affect both individuals and businesses and it is important to fully understand how these changes will impact you. Many ask, "Will this new legislation help me or hurt me?" Learn about the substantial provisions affecting individuals and businesses, especially independent consultants and entrepreneurs.

Biography: Bob Simpson is the Founder and Managing partner of Brinker Simpson & Company, LLC, established in 1989. He has a varied background of entrepreneurial pursuits. Bob received his Masters of Science in taxation from Widener University and advises commercial clients and individuals on a variety of tax planning issues, including the implementation of tax savings policies, executive compensation, and business succession planning. He advises enterprises in entity selection, capital budgeting and financing alternatives. His clients include privately held companies and not-for-profit organizations, along with intricate family based entities, estates and trusts.

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 (267) 666-0949 and leave a message. Fee, including food and beverages, is \$30 by reservation/cancellation deadline: **Saturday, May 5th**.

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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:

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- [Consultants' Directory](#) – find consultants who can help you solve your problems & meet your needs
- [Blogs](#) – did you know that chemists can blog? Yes! 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 members, come to a CCN meeting or call 267-666-0949.



**PHILADELPHIA SECTION OF THE
SOCIETY OF TRIBOLOGISTS AND LUBRICATION ENGINEERS**

2018 Scholarship Application

Eligibility: Sophomores or above pursuing a Bachelors or Graduate degree in the Physical Sciences, Engineering, Tribology, Math or similar studies with a GPA of 3.0 or above. Preference will be given to those studying or working in a field related to Lubrication Science.

Award: Financial award will be determined based on the number of qualified applicants and the money raised by the June 30th awards acknowledgement deadline. The awards will range from \$500 to \$2,000 per student. The distribution of awards will be based on merits of the students who apply and the total scholarship amount raised by the STLE committee.

Instructions:

1. Please print clearly the following information. Scan complete application, **with transcript and one faculty recommendation**, by May 30, 2018 and send to Bill Tuszyński at w.tuszyński@unamigroup.com subject line: Scholarship Application.
2. Please complete one application per student. Please do not turn in multiple requests.
3. Decisions will be made by June 30, 2018 and the scholarship recipient will be notified via email. The award will be made in person at a mutually agreeable date. Scholarship awardees will be invited to present their work at a future Philadelphia STLE Section meeting.

Personal Information

Applicant Name: _____

Street Address: _____

City, State, Zip: _____

Home Phone: _____ Cell Phone: _____ Same as home _____

Email: _____

Academic Information

College: _____

Degree Pursued: _____

Credit hours Earned to Date: _____

Intended Major/ Subject: _____

GPA (in major for undergraduate, cumulative for graduate students): _____

Describe how your studies/work is related to Lubrication or a related field. Use separate Page if necessary (max 200 words): _____

Questions on the Scholarship process can be directed to Bill Tuszyński at w.tuszyński@unamigroup.com. For more information about the Philadelphia STLE section see <http://philadelphia-stle.org/>

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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There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.

- Companies for laboratory and management positions
- 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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email: vincegale@mboservices.net

PHILADELPHIA SECTION, ACS

CURRENT CALENDAR OF ACTIVITIES

Date and Time	Event	Location/Information
Friday, May 4 11 AM Seminar	Drexel University Chemistry Seminar, Karl Booksh – University of Delaware: <i>Raman Hyper-Spectral Imaging of Meteorites, Meteorite Impacts, and a Little Bit of Art</i>	Drexel University Chemistry Department Disque Hall 109 3141 Chestnut Street Philadelphia, PA 19104 http://www.pages.drexel.edu/~hj56/Seminars.htm
Tuesday, May 8 11 AM Seminar	Drexel University Chemistry Seminar, Ming-Yu Ngai – Stony Brook: <i>Development of Novel Chemical Tools for Accessing Unexplored Chemical Spaces</i>	Drexel University Chemistry Department Disque Hall 109 3141 Chestnut Street Philadelphia, PA 19104 http://www.pages.drexel.edu/~hj56/Seminars.htm
Wednesday, May 9 5:30 PM Networking 6:30 PM Dinner 7:30 PM Talk	Chemical Consultants Network Meeting, Robert B. Simpson, MS, CPA, Managing Partner, Brinker Simpson & Company LLC: <i>Tax Cuts and Jobs Act: Business and Individual Impact</i>	The Cynwyd Club 332 Trevor Lane Bala Cynwyd, PA 19004 http://chemconsultants.org/page-1641395
Monday, May 14 5:00-6:30 PM Vendor Show 6:30-7:30 PM Free Buffet-Style Dinner 7:30-7:40 PM Business Mtg. 7:40-8:45 PM Talk	Delaware Valley Mass Spectrometry Discussion Group Vendors Night, Dr. Alan Marshall – FSU: <i>Reading Chemical 'Fine Print': The Key to Exploiting Nature's Compositional Complexity</i>	Radnor Hotel; 591 E. Lancaster Avenue; Wayne, PA 19087 Please RSVP to Xi Qiu (XQiu2@its.jni.com) by 5/8/18 Additional information is available at www.dvmsdg.org
Tuesday, May 15 5-7 PM	Philadelphia ACS Board of Directors Teleconference Meeting	More information will be available on the website soon
Tuesday, May 15 By appointment	Philadelphia ACS Section THE CAREER CLUB	The Community Center of the Giant Super Food Store 315 York Road Willow Grove, PA 19090 https://acsphillycareerclub11.eventbrite.com
Thursday, May 17 5:15-6:00 PM - Registration/Reception 6:00-7:30 PM- Lecture & Awards 7:30-9:30 PM – Dinner	Philadelphia ACS Section Meeting, Excellence in Teaching Awards, Dr. Andy Jorgensen – Professor Emeritus of Chemistry, University of Toledo: <i>Global Climate Disruption: How Do We Know? What Can We Do?</i>	University of the Sciences Integrated Professional Education Complex (IPEX) 4306 Woodland Avenue Philadelphia, PA 19104 https://www.eventbrite.com/e/philadelphia-section-ac-s-event-tickets-45313398595
Friday, May 18 11 AM Seminar	Drexel University Chemistry Seminar, Kevin Brown – Indiana University: <i>No Strain, No Gain: Advances in the Synthesis and Use of Cyclobutanes</i>	Drexel University Chemistry Department Disque Hall 109 3141 Chestnut Street Philadelphia, PA 19104 http://www.pages.drexel.edu/~hj56/Seminars.htm
Thursday, May 24 6:30 PM Social Hour 7:30 PM Seminar	Philadelphia Organic Chemists' Club, Dean G. Brown – AstraZeneca: <i>Current and Future Perspectives on Molecular Screening Libraries and Synthetic Methods in Drug Discovery</i>	Chemistry Department - University of Pennsylvania Carolyn Hoff Lynch Lecture Hall 34 th and Spruce Streets Philadelphia, PA http://www.pocclub.org/
Friday, June 1 11 AM Seminar	Drexel University Chemistry Seminar, Daniel Seidel – Rutgers University: <i>New Strategies for the C-H Functionalization of Amines</i>	Drexel University Chemistry Department Disque Hall 109 3141 Chestnut Street Philadelphia, PA 19104 http://www.pages.drexel.edu/~hj56/Seminars.htm
Sunday, June 3 All day	2018 NanoMARM Meeting	Iaccoca Hall Lehigh University Bethlehem, PA http://www.marmacs.org/2018/marm2018.html

Please check the individual websites for additional updated information

All content submissions are due on the 15th day of the month prior to publication

August 19-23, 2018
256th American Chemical Society National Meeting and Exposition
Boston, MA

https://www.acs.org/content/acs/en/meetings/national-meeting/program/abstract-submission.html?sc=home_meetings_180116_mtg_BO18_od