Philadelphia ACS Section Award Winner
Dr. Joseph S. Francisco
Professor of Chemistry
University of Pennsylvania

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ADVANCE NOTICE

NOVEMBER MEETING
Ullyot Public Affairs Lecture
Thursday, November 17, 2022
6:00 PM – 8:00 PM
Science History Institute
315 Chestnut Street
Philadelphia, PA 19106

See the NOVEMBER issue of the Catalyst for details, call the Section Office at (267) 485-1792 or email PhilaACS@gmail.com.
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For all the dedicated readers of this newsletter, I would like to begin with a September recap. I understand that many of us had been looking forward to attending The Edgar Fahs Smith Memorial Lecture last month. Unfortunately, Dr. Squire Booker had to cancel last minute due to personal circumstances. I really hope we can get Prof. Booker to share his research with us next year. Until then, you can probably read a couple of his papers and have an interesting question or two prepared for his visit.

Although we did not have an official Section event in September, the members of the Board were busy planning other exciting events for this fall. Our Chair-Elect, Dr. Graham Dobereiner, is hosting the Section Award in October. Please look for the details about this event in this edition of the Catalyst. This year the Section Award will be given to Dr. Joseph S. Francisco of the University of Pennsylvania. I am sure many of you recognize the name, and if you do not, then you should attend the lecture that will be delivered by Dr. Francisco at the University of Pennsylvania campus.

By popular demand, Dr. Michael Castaldi of the Senior Chemists Committee is hosting another Science History Museum tour for undergraduate students on Saturday, October 8th. This is a great event for undergraduate students to attend because you can learn more about ACS Local Section activities and you get to meet some members of the Board. We are looking for some chemists to get involved in YCC next year and we are willing to discuss open positions with you at this event. If you have any burning questions about careers in chemistry or you want someone to take a look at your resume, this is also the event for you!

I want to make sure I give you plenty of time to sign up for the mini-Leadership Institute that is organized by our Immediate Past-Chair, Dr. Christie McInnis. This event is a collaboration of multiple local sections and it will definitely sell out. As I mentioned last month, this is what typical training for ACS officers looks like. On Saturday, November 5th, you will get a chance to take two courses of your choosing. The course options include Fostering Innovation, Collaborating Across Boundaries, Developing Communications Strategies, and Coaching and Feedback. The class size is limited to provide the best experience possible. You can find the details about the event on our Eventbrite page. I really look forward to seeing you at St. Joseph’s University that day.

Finally, I will share what I have been up to last month. I have been on a mission to organize a Strategic Planning Retreat for our Local Section for about a year now. I finally got the dates for February 2023. As the Section, we had to make quite a few changes to our program over the past couple of years. We have many annual events that we treasure and at the same time we want to introduce new events in the future to serve our members better. At some point next month, you will be getting a survey from us. We would like to hear from you about what you need from us in the future. If you have any suggestions, comments, or complaints, I want to hear it all.
This brings me to the last ask, at least for this month. I am aware that many of you have switched jobs, or at least email addresses. If you want to get (or continue to get) emails from the Local Section with our monthly activities, let us know if you changed your email address. You can do that by emailing us at PhilaACS@gmail.com.

That is all I have for now, I will talk to you in November!

NEWS ATOMS—Alan Warren

The CAS division of the American Chemical Society announced 29 Future Leaders from among PhD students and postdocs. Ashley G. Woolfork of the University of Pennsylvania was named, where she studies the effects of a functional circadian clock on brain metabolites using mass spectrometry.

Karen Goldberg, Vagelos Professor of energy research at Penn, will receive the 2023 William H. Nichols medal of the ACS. She is being recognized for her work in organometallic reaction mechanisms.

DEATHS

Harold Maron Farrell, Jr., retired biochemist, March 27 at 81. In 1967 he joined the staff of the USDA’s Eastern Regional Research Center as a researcher in the milk properties laboratory. Farrell served as research leader of the biochemical investigation group and then the chemistry of lipids research unit. In 1991 he was named lead scientist for the study of the chemistry and biochemistry of milk proteins in the dairy products laboratory, retiring in 2003. He served on the board of the Federation of Animal Science Societies and was a 50+ year member of ACS.

Edward C. Norman, retired chemist, August 26 at 88. As a specialist in firefighting foams, he was employed by Pennwalt and National Foam, and was named president of Aqueous Foam Technology.

Note: News Atoms seeks to report new hires, significant promotions, honors and awards, and those who have recently passed away from the field of chemistry in the greater Philadelphia area. If you have a news item for this column, send it by email to PhilaACS@gmail.com or by mail to the Philadelphia Section office.

ACS CAREER CONSULTANTS

Would you like to speak to a local ACS Career Consultant? The Philadelphia Section career consultants can provide one-on-one career advice, resume reviews, or mock interviews. Please send an email request to acsphillycareerservices@gmail.com to set up an appointment.
THE 2022 PHILADELPHIA SECTION AWARD

Dr. Joseph S. Francisco

President’s Distinguished Professor, Professor of Chemistry
University of Pennsylvania

Monday, October 17, 2022

4:00 PM Lecture with Reception to Follow

This event is free and no registration is required

Lynch Lecture Hall
Chemistry Building
University of Pennsylvania

A Fresh Look at the Chemistry Behind Acid Rain

The two major components of acid rain are sulfuric acid ($\text{H}_2\text{SO}_4$) and nitric acid ($\text{HNO}_3$). Sulfur dioxide ($\text{SO}_2$) is the main precursor of $\text{H}_2\text{SO}_4$. Atmospheric sulfur dioxide is oxidized homogeneously by reaction of $\text{SO}_2$ with OH and $\text{O}_2$ leading to $\text{SO}_3$, which then reacts with water to form sulfuric acid. This is the now accepted acid rain mechanism for generation of atmospheric sulfuric acid. In this talk we will review the traditional acid rain mechanism and we will introduce a new acid rain mechanism that relies on the photochemistry of $\text{SO}_2$ and show how this new chemistry can be an important ingredient in the overall mechanism of acid rain formation not yet considered by current atmospheric models.

Sulfur dioxide has been proposed in solar geoengineering as a precursor of $\text{H}_2\text{SO}_4$ aerosol, a cooling agent active in the stratosphere to contrast climate change due to the anthropogenic emissions of greenhouse carbon dioxide. Considering the introduction of $\text{SO}_2$ in the stratosphere, the photochemistry of HOSO is critical to understanding the role of $\text{SO}_2$ mitigating climate change. The spectroscopy and photochemistry this new species provide important insights that help to better understand $\text{SO}_2$ chemistry in earth's upper atmosphere.
743rd ACS Philadelphia Section Board of Directors Meeting

Call for Agenda

The 742nd Meeting of the Board of Directors of the ACS Philadelphia Section will be held from 7:00 PM to 8:00 PM on Thursday, October 13, 2022 by teleconference.

- Those interested in being added to the agenda are kindly asked to send a request to the Chair (ivona.sasimovich@gmail.com) by Wednesday, October 12, 2022 for inclusion in the agenda.
- All Officers will be included on the agenda to verbally report by default.
- Please Note: If a written report or notice of a verbal report is not submitted to the Chair by the specified deadline, then all such reports will be relegated for discussion as “Other Business.” Please note that the Chair cannot guarantee sufficient time for discussion in these cases.

- All Board of Directors meetings will be open to the public. Public access information for this teleconference will be released through the Section’s website and by the Section’s email blast.

Tentative Agenda

I. Roll Call
II. Approval of Meeting Minutes
III. Officers’ Reports
IV. Committee Reports
V. Other Business

For those participating by teleconference: All Officers and Directors should have received a Google Calendar invitation with a Zoom Link. For those who have not received this information as well as for your convenience, please use the following information to access the teleconference:

By Internet: register by following this link: https://bit.ly/3ty9ZRF
Meeting ID: 816 2631 9042

By Phone:
Phone Number: +1 646 558 8656 or +1 301 715 8592
Access Code: 816 2631 9042

Ivona Sasimovich
Chair
ivona.sasimovich@gmail.com

Sister Rose B. Mulligan
Secretary
rmulligan@immaculata.edu

Section Office
PhilaACS@gmail.com

CC: Officers & Directors
Councilors & Alternate Councilors
Committee & Group Chairs

American Chemical Society – Philadelphia Section
231 South 34th Street, Office – 5th Floor, Philadelphia, PA 19104-6323
Phillyacs.org
2022 NCW Illustrated Poem Contest
Fabulous Fibers: The Chemistry of Fabrics

The Philadelphia Local Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in kindergarten through 12th grade, celebrating the chemistry of fabrics.

Contest Deadline: Sunday, October 23, 2022 by 11:59 PM Eastern
Prizes: $50.00 for the winner of each grade category (K–2 / 3–5 / 6–8 / 9–12)
Each student who enters will also receive a certificate.
Local Contact: Tom Umile (phillyacs.education@gmail.com)
Submission: Entries will be collected via e-mail. Download the entry form at bit.ly/phillyNCW22. Email your completed entry form and your illustrated poem as separate files to phillyacs.education@gmail.com.

Winners of the Philadelphia Local Section’s Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

Write and illustrate a poem using the NCW theme, “Fabulous Fibers: The Chemistry of Fabrics.” Your poem must be no more than 40 words and in the following styles to be considered:

HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE

Possible topics related to the theme include:
- Natural fiber
- Synthetic fiber
- Chemical synthesis
- Polymers
- Dyeing fabrics
- Hydrophilic
- Hydrophobic
- Properties of fabrics

Entries will be judged based upon:
- Artistic Merit - use of color, quality of drawing, design, and layout
- Poem Message - fun, motivational, inspiring about yearly theme
- Originality - unique, clever and/or creative design
- Neatness - free of spelling and grammatical errors

Contest rules:
- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the NCW theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. Poems must be scanned and sent via email. Illustrations may be created using crayons, watercolors, other types of paint, colored pencils, or markers. The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the untitled paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted; all entries must include an entry form. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- Acceptance of prizes constitutes consent to use winners' first name, and entry for editorial, advertising, and publicity purposes.
2022 ELECTION INFORMATION

The 2022 Philadelphia Local Section Election is approaching. This election will be held from **Monday, September 26, 2022 through Wednesday, October 26, 2022 concluding at 11:59 PM**. The election will be done electronically using SurveyMonkey.

If you do not have a registered email address with National ACS, a postcard announcing the election will be sent to your mailing address and you can request a paper ballot from Steven A. Fleming by email at *steve.fleming@temple.edu*. You can also request a paper ballot and/or candidate bio's, from: Steven A. Fleming, Temple University, 1901 N 13th Street, Philadelphia, PA, 19122. All ballots, paper and electronic, must be received by **Wednesday, October 26, 2022 at 11:59 PM**.

The list of candidates running for each office and their biographies can be found by [clicking here](#). The list of candidates running for each office is given below:

**Chair-Elect** – [click here](#) for biographies
- Matthew Irwin
- David Salas-de la Cruz

**Treasurer** – [click here](#) for biography
- Wei Wang

**Director** – [click here](#) for biographies
- Amy Brown
- Jarrod Cohen
- Jason P. Cross
- Anne S. DeMasi
- Wei Gao
- Matthew Irwin
- Steven M. LaMonaca
- Ziang Li
- Christine E. McInnis
- John Milligan
- Kathleen Ann (Kathy) Thrush Shaginaw

**Councilor** – [click here](#) for biographies
- Anthony W. (Tony) Addison
- Deborah H. Cook
- Jason P. Cross
- Rick Ewing
- Marta Guron
- Marge Matthews
- Christine E. McInnis
- James K. Murray, Jr.
- Ann Rowley
- Victor J. Tortorelli
DELWARE VALLEY LEADERSHIP DEVELOPMENT INSTITUTE

Join the Philadelphia, Lehigh Valley, Princeton and Trenton Local Sections of the American Chemical Society (ACS) for their Delaware Valley Leadership Institute on November 5th at St. Joseph’s University in Philadelphia. The day long event will include the opportunity to choose two leadership courses developed for chemists from the ACS and enjoy a networking luncheon with other attendees. An optional happy hour will follow. Course offerings include Fostering Innovation, Collaborating Across Boundaries, Developing Communication Strategies, and Coaching and Feedback. Space is limited and tickets start at $20 for students or $50 for members. To join us, register at: https://www.eventbrite.com/e/delaware-valley-leadership-development-institute-tickets-412534510827

OPPORTUNITIES TO VOLUNTEER

Younger Chemists Committee Program and Event Planning Volunteers: The Younger Chemists Committee (YCC) is a committee of the Philadelphia Local Section focusing on the needs of undergraduate, graduate, post doc, and early career chemists under 35 years old. The committee is looking for volunteers to help with program planning for the annual poster session to be held this Fall. Many hands make light work, so several volunteers are needed in this capacity! This is an excellent opportunity for students and early career chemists to assume leadership roles and network with likeminded scientists within the ACS community. The estimated time commitment would be less than 1 hour per week.

All interested individuals can reach out to Isabella Goodenough at: igoodenough.acs@gmail.com
Your Hosts the Philadelphia Local ACS and the Senior, Younger, Disabilities, Women’s and Career Chemist Committees

Please join us for this event as you will be able to talk to senior chemists who have used and seen the evolution of our science discipline in the Museum’s displays.

Pick the brains of other members of the Philadelphia section on questions of careers, School and life as a scientist.

Résumé evaluation by Career Consultant

Join the American Chemical Society (student member)

https://www.acs.org/content/acs/en/membership.html

Finally, meet other chemistry undergraduates from other schools.

Science History Museum for Undergraduate Students

315 Chestnut Street
Philadelphia, PA 19106

Saturday October 8, 2022

Below are the Covid regulations

https://www.sciencehistory.org/covid-19

Tentative Program

Arrival at Museum 10:00 AM
Breakout into small groups 10:15 AM

Museum Tour 10:30 – 12:00 PM
Walk to Lunch

Lunch and Small group Discussions 12:30-2:00
Walking tour of Philadelphia (Optional) Prof Castaldi

There is no fee for the museum visit. Lunch is pay as you go.
Ullyot Public Affairs Lecture: Frances Arnold

Thursday, November 17, 2022
6:00 p.m.–8:00 p.m. EST (UTC -5)
Science History Institute
315 Chestnut Street
Philadelphia, PA 19106
United States

The 2022 Ullyot Public Affairs Lecture, featuring Nobel laureate Frances Arnold, will be a hybrid event held both at the Science History Institute and online.

Registration will open soon.

Frances Arnold is the Linus Pauling Professor of Chemical Engineering, Bioengineering, and Biochemistry at the California Institute of Technology. She was awarded the Nobel Prize in Chemistry in 2018 for pioneering directed enzyme evolution and has used directed protein evolution for applications in alternative energy, chemicals, and medicine. Arnold was recently appointed co-chair of President Biden’s Council of Advisors on Science and Technology. Other awards include the Charles Stark Draper Prize of the U.S. National Academy of Engineering (2011), the U.S. National Medal of Technology and Innovation (2011), and the Millennium Technology Prize (2016). She has been elected to the U.S. National Academies of Science, Medicine, and Engineering, and was appointed to the Pontifical Academy of Sciences in 2019. Arnold cofounded three companies in sustainable chemistry and renewable energy (Gevo, Provivi, Aralez Bio) and serves on the boards of several public and private companies. She earned a BS in mechanical and aerospace engineering from Princeton University and a PhD in chemical engineering from the University of California, Berkeley.

About the Ullyot Public Affairs Lecture

Endowed in 1990 by chemist Glenn Edgar Ullyot, this annual lecture seeks to illustrate how chemistry, biology, and the sciences in general contribute to the public welfare.

The Ullyot Public Affairs Lecture is presented jointly by the Science History Institute (where it has been held since 1997), the Department of Chemistry at the University of Pennsylvania, the Department of History and Sociology of Science at the University of Pennsylvania, the Department of Chemistry and Biochemistry at the University of the Sciences, and the Philadelphia Section and Delaware Section of the American Chemical Society.
741st ACS Philadelphia Section Board of Directors Meeting
Thursday, June 9, 2022
Teleconference Meeting


Excused: David J. Cichowicz, Melissa Cichowicz, Anne DeMasi, and Ann Valentine.

Absent: Amy Brown, Isabella Goodenough, David Salas-de-la-Cruz, and Victor Tortorelli.

The 741st Board Meeting of the Philadelphia Section, ACS, was called to order at 7:07 PM and the ACS Code of Conduct was read.

I. Roll Call

Roll was taken, a quorum was present, and the meeting began.

II. Approval of Meeting Minutes

The May 12, 2022, 740th BoD meeting minutes were approved as amended with three abstentions.

III. Officers’ Reports:

a. Chair – Ivona Sasimovich

   • ACS Strategic Planning Retreat
     o Because of booking, this will now be in February or March 2023.
     o Ivona talked with Graham about this timeline.
     o Will need 10 -15 active section members to participate.
     o Participants will be working together and doing some homework in advance will be required.
     o Ivona will ask for volunteers, with participants being a mixture of those who have history and wisdom of section and those newer who plan on being a part of the section for a good number of years.
     o Participants do not have to be board members but ACS local section members.

   • Local Section Dues for 2023
     o Ivona presented information from other sections.
       ▪ From the National ACS Office, local dues range from $2 - $30
       ▪ Phila ACS currently is $10
     o Annual allotment from ACS
       ▪ Will not be affected by membership duse changes
       ▪ Some sections struggle to spend the money
         • Reserve between 20% - 300% of annual allotment.
     o For now, Phila. ACS dues will remain the same.

   • Zoom
     o Subscription for account will be over in September
     o Because Zoom was budgeted, Ivona will talk with Graham and possibly renew the Phila ACS Zoom subscription.
IV. Committee Reports
   a. Career Services – Jim Murray
      - Met June 8
      - National rolled out new program “MyVitae”
         - Good addition to the ChemIDP Program (Individual Development Program).
         - Will try to roll this out to as many students in the section.

V. Other Business
   a. MARM By-Laws
      - Alison Hyslop, of NY and MARM representative joined us for the meeting. Prior to the meeting, the board received proposed changes in the MARM by-laws to review.
• Section 1 about Chair-Elect and the Section 2 seemed to repeat.
  o Section 1 talks about who the officers are.
  o Section 2 refers to their roles
  o Alison Hyslop, MARM representative, will take this back to the board to look at to streamlining the Section 1 and 2 wording.
• The motion was approved in favor of the MARM by-law changes.

b. Treasurer
• Because of the complexity of this role, the role of being mentored was seen as important.
• The Board will look at a change in the by-laws over this coming year. Possibilities include:
  o Adding a treasurer-elect position.
  o Having a three-year term for the treasurer.
  o Providing for ways that members with the expertise are in this role.

• Chemagination – had 17 teams at MARM, smaller number of groups in years past. Deborah Cook had the pleasure to serve as a judge at this and was inspired by the teams.
  • Ivona and Deborah enjoyed how well-run the MARM was, 850 registered, and good balance with industry and academic representation.

d. Judith and Tony are already discussing Phila. contribution to next MARM.

e. Education Outreach Report submitted by Tom Umile
  • Sharon Haynie commended Tom for this report and all that took place.

Next meeting, Thursday, September 8th. No BoD meeting in July or August.

The meeting was adjourned at 7:56 PM.

Sister Rose B. Mulligan, IHM
Chemical Consultants Network ZOOM MEETING

OCTOBER 12, 2022

START A CHEMICAL ENGINEERING CONSULTANCY FIRM: 10 TIPS TO KNOW

Angela Blackwell – Peer Reviewer to the Academy of Management

DATE & TIME: Wednesday, October 12, 2022 at 6:30 pm

Click here to register

Location: Online via Zoom! (Registration required, see below)

Biography: Angela Blackwell is a peer reviewer of the Academy of Management (NY), an energetic and persuasive business advisor at the Central Indiana SBDC, where she advises and assists entrepreneurs seeking to grow and improve their businesses. She held various senior and executive positions across several industries and sectors before joining the Indiana SBDC. She is an accountant and entrepreneur, IndyTABS (Tax, Accounting, and Business Solutions), serving the greater Indianapolis area for over a decade. Angela holds an MBA in Finance. Currently, she is a doctoral candidate at Franklin University working on her Doctoral dissertation of Business Administration.

Abstract: In this webinar, Angela will offer her insights on how to start a Chemical Engineering Consultancy Firm. 10 Tips are offered with examples about certain key issues from the view of both sides: consultant vs client who hires consultant. A 30-minute Q&A would follow. We hope this will be beneficial for young chemists and new consultants who just joined the consulting business.

Agenda

1. Prepare for an entrepreneurial career
2. Beyond the technical skills
3. What type of entrepreneur are you?
4. Areas of specialization
5. Develop a business model
6. Learn from your competition
7. Know what you need
8. Business plan
9. Determine your legal structure, and set up the business
10. Your administrative prowess

Click here to register to attend the event. This session is FREE.

CONSULTANTS - OPPORTUNITY HERE! 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 – Consultants’ Directory – Blogs – Resources
- 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
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.

SURPRISE

our editor by calling and saying you appreciate the quality and content of our newsletter. Our editor works hard to maintain a publication of interest to our membership. Oh, and by the way you could also give credit to our advertisers who financially support us.

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The Catalyst readership is greater Philadelphia’s largest source for chemical and biochemical buyers. The Catalyst reaches more than 5,400 readers each month. It has been estimated that these buyers annually purchase more than $150,000,000 of:

- EQUIPMENT
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- CONSULTING SERVICES

Placing an advertisement in The Catalyst 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:

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