

the Catalyst



Official publication of the Philadelphia Section, ACS
<http://phillyacs.org>

May 2022
Volume 107, No. 5



Scholastic Achievement Award Winners

HIGHLIGHTS

Comments From the Chair	63
News Atoms	64
April Award Ceremony	66
Spring ACS Council Notes	76

ADVANCE NOTICE

JUNE MEETING

TBD

See the JUNE issue of *the Catalyst* for details,
call the Section Office at (267) 485-1792 or email PhilaACS@gmail.com.

STAFF

EDITOR-IN-CHIEF

Robin S. Davis

EDITORS

News Atoms: Alan Warren

Proof Editors: Anthony Addison

Georgia Arbuckle-Keil

Kendra Luther

Corrie Kuniyoshi

Marge Matthews

Alan Warren

ADVERTISING MANAGER

Victor Tortorelli

COMMUNICATIONS COMMITTEE

Chair: Lee Hoffman

Anthony W. Addison

Georgia Arbuckle-Keil

Matthew Bodek

Robin S. Davis

Alan Heldon

Corrie Kuniyoshi

Kendra Luther

Marge Matthews

Liliana Suárez

Victor Tortorelli

Alan Warren

CONTENTS

Comments From the Chair	63
News Atoms	64
Opportunities to Volunteer for YCC	64
May Board of Directors Meeting	65
April Section Meeting: Award Ceremony	66
2022 MARM	68
2022 Scholastic Achievement Award Recipients	69
ACS Career Consultants	75
From ACS Council, Spring 2022	76
Chemical Consultants Network	77
Directory of Services	78

Published monthly except July, August and December by the Philadelphia Section of the American Chemical Society. All views expressed are those of the editors and contributors and do not necessarily represent the official position of the Philadelphia Section of the American Chemical Society. Editorial matters should be sent to the attention of the Editor-in-Chief c/o the Philadelphia Section ACS, Department of Chemistry, University of Pennsylvania, 231 South 34th Street, Philadelphia, PA 19104-6323 or PhilaACS@gmail.com.

Advertising: Victor Tortorelli, vtortorelli@ursinus.edu

Comments From the Chair



Spring is finally here! I hope all of you are enjoying the sunshine and warm weather. I do not know about you, but I usually get an energy boost when I can get home before the sunset. I am really trying to apply that energy to productive tasks and annual spring cleaning.

Ivona Sasimovich

The month of May is special for a couple of reasons. First of all, Mother's Day is around the corner and consider this your reminder to send some love and appreciation to the mothers in your life. May is also a significant month for academia because it is officially graduation season.

This is the time of the year when we usually celebrate the most talented undergraduate students from the chemistry departments across the greater Philadelphia area. These students have worked hard to get to this milestone and the Local Section wants to make sure they know that all the hard work did not go unnoticed. At our April Section Meeting we did just that, by recognizing 21 graduating students with Scholastic Achievement awards on the campus of Rutgers University- Camden. If you flip or scroll a couple of pages, you can read more about the students and their plans after graduation.

In addition to celebrating students, we also want to recognize the educators who taught all these bright students. This year we recognized LeeAnne Fox-Jones of The Julia Reynolds Masterman Laboratory and Demonstration School for Excellence in Pre-College Teaching. Her sense of humor and ingenuity are great attributes in capturing the interest of sixth graders in science. We also awarded Dr. Mark Reynolds of Saint Joseph's University for Excellence in Undergraduate Teaching. The nomination was organized by students of Dr. Reynolds' who really wanted the Local Section to know how great a teacher they have.

The award ceremony was a celebration, and it was special for another reason. This was the first in-person Local Section meeting that we've had since the beginning of the pandemic. For some of the officers this meeting was the first time we met in person. I am extremely grateful to Dr. David Salas-de la Cruz and Rutgers University – Camden for hosting and making the award ceremony a reality for us. They made everyone feel welcome and facilitated planning of the event during every step.

Although the City of Philadelphia thought about bringing back the mask mandate, we will try our best to go back to in-person events for this year. I am sure all of us are tired of staring at our screens and I would like to limit the number of virtual events in favor of social interactions. For those of us who are still not comfortable with larger gatherings, I will provide you with the summary of what happened at the live events.

On this note, I will let you get back to enjoying the spring weather.

Have a great May and I will talk to you next month!

NEWS ATOMS—*Alan Warren*

The ACS Women Chemists Committee named its 2022 Rising Star awards. One of the recipients was **Zahra Fakhraal** of the University of Pennsylvania.

Past ACS president **Joseph S. Francisco**, professor of earth and environmental science and of chemistry at Penn, was named a Phi Beta Kappa Visiting Scholar for 2022-2023. He will visit students and faculty at colleges and universities and present lectures. The honor is bestowed by the Phi Beta Kappa Society.

ACS confers one of its 2022 Outreach Volunteer awards to **Isabella Goodenough** of the Philadelphia Section. The awards are presented to local section and international chapters.

DEATHS

Helen Conrad Davies, professor emeritus of microbiology and advocate of racial equality and women's rights, March 23, 2022 at 97. She joined Penn's department of physical biochemistry in 1960. She received many teaching awards and in 1999 the Lifetime Mentor award of the AAAS. Davies held office in many scientific organizations and marched with Martin Luther King in 1965. While in college she was a night club singer, and during her teaching career she created lyrics for popular tunes that would help her students to remember certain concepts.

Stanley Segall, professor emeritus and past chairman of Drexel University's department of nutrition and food sciences, March 4th at 91. He worked as a scientist and engineer for the coffee company Rudd-Melikian and then joined Drexel's faculty in 1968. He taught bioscience and biotechnology related to nutrition and food science, until 2005. Segall authored many newspaper articles and book chapters on nutrition and was a consultant to business firms and government agencies.

OPPORTUNITIES TO VOLUNTEER

Younger Chemist Committee Program and Event Planning Volunteers: The Younger Chemist 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



ACS Local Section
Philadelphia

740th ACS Philadelphia Section Board of Directors Meeting

Call for Agenda

The 740th Meeting of the Board of Directors of the ACS Philadelphia Section will be held from **7:00 PM to 8:00 PM** on **Thursday, May 12, 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, May 11, 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/3ty92rF>
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
T phillyacs.org

April Section Meeting: Award Ceremony

The April Award Ceremony took place on Tuesday, April 5th on campus of Rutgers University - Camden. There were about 50 people in attendance. This event featured the recipients of Excellence in Teaching in Chemical Sciences Awards and Scholastic Achievement awards.

The event started with a short address by Ivona Sasimovich, the Chair of Philadelphia Local Section. She shared a couple of facts about the Local Section and encouraged students to get involved with ACS both on the national and local levels.

Next, Dr. David Salas-de la Cruz gave a presentation about the Chemistry Department of Rutgers University - Camden. The attendees learned more about what Rutgers-Camden has to offer to chemistry students who are interested both in graduate and undergraduate chemistry. The faculty to student ratio is 1:15, which creates a very welcoming and collaborative environment. Dr. Salas-de la Cruz invited everyone to reach out to him with further questions. He even shared where he normally gets a cup of coffee if anyone wanted to approach him in a less formal environment.

Following the overview of the Rutgers University-Camden, Dr. Graham Dobereiner introduced the audience to the recipients of Excellence in Teaching Awards. The Chair-Elect of the Local Philadelphia Section first introduced LeeAnne Fox-Jones of The Julia Reynolds Masterman Laboratory and Demonstration School. This sixth-grade science teacher was awarded for her Excellence in Pre-College Teaching in Chemical Sciences. Her sense of humor made it clear why the students enjoy her classes so much. The ability of LeeAnne Fox-Jones to capture the attention of the entire audience in a couple of sentences was a great example of her teaching tactics. Now I can tell why sixth graders pay attention to her lessons.





Next Dr. Dobereiner shared some fun facts with the audience about our recipient of the Excellence in Undergraduate Teaching Award. This year the award went to Dr. Mark Reynolds of Saint Joseph's University. Dr. Reynolds was surrounded by the support of his students and his family at the event. He shared how grateful he was to his students and his wife, who happens to be a fellow professor of chemistry at Saint Joseph's University.

All the pictures featured in this article were taken by Dr. Salas- de la Cruz after his presentation.

After the teaching award, Dr. Dobereiner and Ms. Sasimovich recognized the students with Scholastic Achievement Awards. A total of 21 students was selected by the universities of the greater Philadelphia area to be awarded at the ceremony. Almost all the students were able to attend the ceremony. Many of the students were accompanied by their professors and some brought their friends. Each student was invited to the podium to receive a certificate and pose for a picture for the ACS Local Section Chair and Chair-Elect.

To conclude the award ceremony, a last-minute addition was made to the program. The Past-Chair, Dr. Christie McInnis, recognized Dr. Isabella Goodenough with Volunteer of the Year Award to thank her for all the work she put into ACS Local Section over the past couple of years. Dr. Goodenough has been instrumental in establishing the Eastern US YCC Partnership and developing a number of programs to support younger chemists not only in the Greater Philadelphia area, but also the members of other Local Sections of the eastern United States.



The evening concluded with informal networking among the professors and the students. Dr. Salas-de la Cruz was busy being a gracious host and taking many pictures of all the award recipients. At the same time, Dr. Dobereiner laid some groundwork and potentially found a place to host the award ceremony in 2023. I am not going to give away his secrets, but I can hint that a castle will be involved.



The picture above features the students and their faculty who attended the awards ceremony on April 5th and the cover of this issue features all the award recipients who were honored at the event. On the next page you can find a list of all the Scholastic Achievement Recipients and their plans after graduation.

The 2022 MARM



June 1-4, 2022 at

The College of New Jersey, Ewing, NJ

Your registration for this in-person MARM includes all the technical programming and food for the conference! We have over 650 abstracts submitted for a revolutionary experience with a packed schedule each day. Exposition, career fair, plenary talks, and networking receptions are all included! Check us out at marm2022.tcnj.edu to register.

2022 Scholastic Achievement Award Recipients

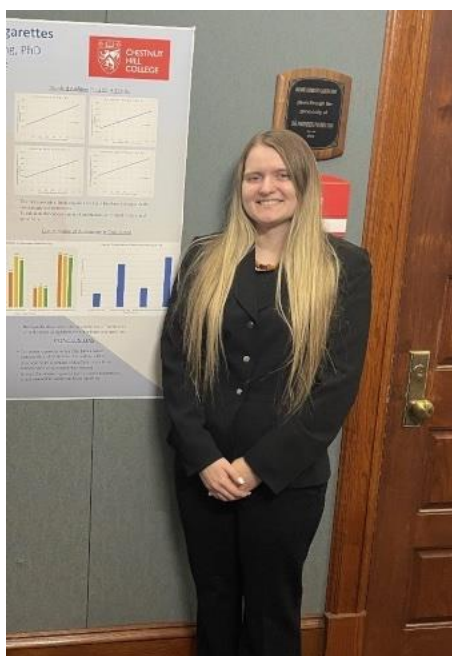


Jennifer Bilker — Arcadia University

I am currently deciding between a handful of medical programs, doctorate of pharmacy programs, and physician assistant programs! No matter the outcome, I plan to stay in the greater-Philadelphia area.

Catherine Getty — Bryn Mawr College

After graduation, I plan to attend graduate school for a PhD in chemistry, specifically the inorganic subfield.



Marta Tenderyak — Chestnut Hill College

After graduation, I am taking a gap year to prepare for dental school.

Clayton Francis — Drexel University

After graduation, I will be attending UC Berkeley for their chemistry doctoral program with a concentration in synthetic chemistry. My planned topic of research is on the development of sustainable polymers with increased recyclability.



Abby Lipinski — Eastern University

After graduation I am planning to continue my studies and attend graduate school.

Genevieve Chan Uy — Haverford College

I will be taking two gap years off conducting research in a lab prior to applying to MD/PhD programs.





Ilyse Gorman — Immaculata University

After graduation, I plan to attend Villanova's graduate chemistry program to obtain my master's degree in chemistry.

Sarah Tse — La Salle University

My plan after graduation is to work as an analyst for a company, although I do strive to become a forensics chemist in the near future, as well.



Joshua Sassaman — Rutgers University Camden

After graduation, I will be getting my masters in Biochemistry at Rutgers Camden. My overall goal is to reach medical school and become an oncologist.



Omar Saleh — Swarthmore College

After graduation, I will be working as a Medicinal Chemistry Research Technician at Scripps Research Institute at the California Institute for Biomedical Research. After a few years there, I plan on pursuing a MD/PhD.

Micah Morton — Temple University

I will be pursuing my PhD in Organic Chemistry at the University of Pittsburgh beginning in Fall 2022.

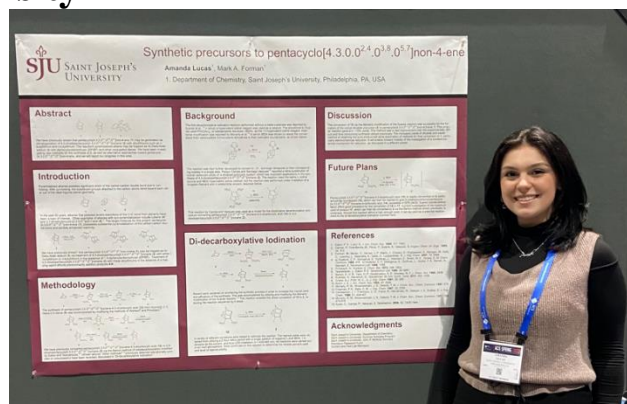


Nicholas Sharpe — Temple University

I plan to attend dental school after taking a gap year to gain more experience working in the dental field.

Amanda Lucas — The Saint Joseph's University

I plan to obtain my PhD in Organic Chemistry at Cornell University, where I will do research on novel synthetic and catalytic methods of olefin metathesis. In my future, I want to teach chemistry at the university level and conduct research on the synthesis of therapeutics for the treatment of neurodegenerative disorders such as Alzheimer's and Parkinson's disease.



Akaash Padmanabha — University of Pennsylvania

I am joining BCG as an Associate in July working out of their LA office.

Madison Stringer — University of Pennsylvania

I will be pursuing a PhD in Biophysics at Washington University in St. Louis.



Dhruv Dhingani — University of the Sciences



I am continuing my higher education this fall and joining the Chemistry PhD program at Princeton University, working in the field of Chemical Biology.

Borna Markusic — University of the Sciences

In September, I will start my PhD in Dr. Dikic's molecular signaling research group at Institute of Biochemistry, Goethe University Frankfurt, Germany.



Timothy Blajda — Villanova University

I will be applying to medical school during the upcoming cycle in hopes to pursue a career in orthopedic surgery.

Conner Balickie — West Chester University of Pennsylvania

After graduation from WCU in Spring of 2023, Conner Balickie ideally hopes to pursue graduate studies at the University of Delaware in either computational chemistry or chemometrics.



Ines Blanc Giro — Thomas Jefferson University

Alyssa St. Jean — Ursinus College

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.

From ACS Council, Spring 2022—*Tony Addison*

The ACS Council met in San Diego on Wednesday, March 23rd, and several of us attended either in-person or virtually on behalf of our Section. There were close to 13,000 participants for the Spring Meeting, counting both on-site and virtual attendees. Of that total, some 70% were on-site, the total making the meeting likely the largest in three years. So, one has the sense of a movement toward “normalcy” - whatever that means these days.

Out of four candidates, Council voted to choose Mary Carroll and Rigoberto Hernandez as the candidates for President-Elect for the late-2022 election slate. No Directors are due to be replaced in our Region-III, but we'll be choosing two Directors-at-Large from the four candidates: Milagros Delgado, Malika Jeffries-El, Will E. Lynch and Ellene Tratras Contis.

Council actions with respect to Society Committees included:

- 1) Approving changes to the duties of the Chemists With Disabilities to make it more inclusive of ACS members of broader levels and backgrounds.
- 2) The use of member dues was modified: the reliance of *C&E News*' funding on the membership dues stream was abandoned, and replaced by a set-aside from the Society's (larger) general budget pool.
- 3) In 2021, the Society's budget advanced significantly, posting a net gain of about \$48M above the budgeted amount. Revenues (\$660M) were 5.2% above budget and expenses (\$581M) were 2.5% below budget, and Society reserves had increased substantially as of December 31st. The shift to virtual meetings in 2020-2021 reduced expenditures such as travel costs, though the budgeting groups are not confident of being able to accurately predict those outcomes for 2022-2023.
- 4) Nonetheless, encouraged by this news, the distribution of funds to Divisions and Local Sections was expanded by setting aside a substantial chunk of the Society's annual budget for this express purpose. This was done in the form of a *quasi-endowment*, which firmly earmarks the funds, but is not irrevocable, lest some major budget problem occurs in the future. The previous funding was set at 20% of the dues.
- 5) A new International Chemical Sciences chapter was approved for Switzerland. The Society will experiment with linking overseas chapters' fees to their local economies using World Bank criteria. It's clear that we cannot expect to encourage international membership by charging annual dues that are equivalent to a member's monthly salary!
- 6) Explanation of modifications to the categories of membership was posted online: <https://www.acs.org/content/acs/en/membership/dues-categories-discounts.html>

CHEMICAL CONSULTANTS NETWORK ZOOM MEETING

MAY 11, 2022

TOXICOLOGY: THE DOSE MAKES THE POISON

Dr. Anne Chappelle – Chappelle Toxicology Consulting & SafeBridge Regulatory and Life Science Consulting

DATE & TIME: Wednesday, May 11, 2022 at 6:30 PM

[Click here to register](#)

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

Abstract: *The Dose Makes the Poison* is the core of the science of toxicology. In this talk, Anne will provide an introduction to toxicology, and provide practical examples of the benefits of a transparent, scientific based strategy for supporting innovation, regulatory submissions, AND worker and the environment protection.

Biography: Anne Chappelle is a 'card carrying' board certified toxicologist and a subject matter expert regarding occupational asthma. For over 23 years, Anne has served on industry focused technical teams and oversight panels that deal with science-based issues that fuel future advocacy for legislation and regulations, sustainability, compliance, health-related issues, mandatory and voluntary research. She has been her own boss as a consultant (Chappelle Toxicology Consulting) and is now a Senior Managing Toxicologist at SafeBridge Regulatory and Life Science Consulting. Anne is committed to not just ensuring that products have a robust toxicological dossier to comply with regulations, but that the data serve to improve downstream uses to minimize potential adverse outcomes to workers, consumers, and the environment.

Anne is passionate about science communication. Targeting the right audience, and bringing people and stories behind the science of how biological, physical, and chemical agents may cause adverse reactions to public, animal, and environmental health, Anne serves as one of the current co-hosts of the Society of Toxicology interview podcast *Adverse Reactions* (www.adversereactionspodcast.com). You may have also seen Anne in Tech Support answering poison questions from Twitter for *Wired Magazine*. (https://youtu.be/OYLno_k3034).

[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

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

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.

Custom Synthesis of Chemicals

Gram to Commercial Production
On-time Delivery, Quality & Competitive Price

TYGER Scientific Inc.

324 Stokes Ave. Ewing, NJ 08638

Phone: 888-329-8990

Email: sales@tygersci.com

Replacement MIST & ODOR elements for EDWARDS VACUUM RV and EM vacuum pump EMF & MF series Oil Mist Filters at the lowest prices
Contact: TRING ENTERPRISES LLC
FREE SHIPPING on website and phoned in orders

tringenterprises@hotmail.com

Office: 610-792-3505 Our 13th year in business
We stock other VP Mist & Oil elements – please ask

PROMOTE YOUR PRODUCTS AND SERVICES • ADVERTISE IN THE CATALYST

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
- SUPPLIES
- 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:

vtortorelli@ursinus.edu

micron inc.
Analytical Service Laboratory

<https://micronanalytical.com>

SEM EDS FTIR DSC TGA ESCA +



Robertson Microlit
LABORATORIES

Where speed and accuracy are elemental

Elemental CHN, S, X analysis

Metals by ICP-OES, ICP-MS, USP<233>

FTIR, UV/VIS spectroscopy, Optical Rotation

GC-MS/FID, Residual Solvents, Headspace

Ion Chromatography

KF Aquametry, Titrimetry

DSC, TGA, melting point

HPLC

1705 US Highway 46 • Suite 1D • Ledgewood, NJ 07852 • 973.966.6668 • F 973.966.0136

www.robertson-microlit.com • results@robertson-microlit.com

Rapid Results • Quality • Accuracy • Competitive Pricing

ADVERTISING INDEX

ACS	78
Micron Analytical Services	78
Robertson Microlit Labs	78
Tring Enterprises LLC	78
Tyger Scientific Inc.	78

Advertising: vtortorelli@ursinus.edu