

# the Catalyst



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

June 2021  
Volume 106, No. 6



**Undergraduate Teaching Award**  
winner: John R. Townsend



**High School Teaching Award**  
winner: Siobhan Margaret  
McVay

## HIGHLIGHTS

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## ADVANCE NOTICES

### SEPTEMBER EVENTS

September 2<sup>nd</sup> at 7 PM—Board of Director's Meeting using same login information as the June Meeting.

September 11<sup>th</sup>—mini Leadership Development Institute at St. Joseph's. It is scheduled to be an all day event. Look for additional registration information by email and social media over the summer.

September 24<sup>th</sup>—Industrial Relations Awards Ceremony. Planned for late afternoon. Look for additional registration information by email and social media over the summer.

September 30<sup>th</sup>—6 PM—Ulliyot Lecture—Science History Institute. Look for additional registration information by email and social media over the summer.

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

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## Comments From the Chair



### Dr. Christie McInnis

I hope that you are feeling the same level of excitement that I am. We just had a wonderful set of programming in May. Our virtual celebration of our Teaching Award Winners and our Student Scholastic Achievement Awardees was held on May 4<sup>th</sup>. Congratulations to our Teaching Award Recipients: Siobhan Margaret McVay from Delran High School for the Excellence in Pre-College Teaching Award and John R. Townsend from West Chester University for the Excellence in Undergraduate Teaching Award. These are well deserved honors! Congratulations to all of the students who earned the

Student Scholastic Achievement Award. Please see this issue of *the Catalyst* for the full list of student awardees. A special thanks to our Awards Committee and Ivona Sasimovich for selecting the teaching awards and organizing the event. Also thank you to Anna Boffice for her efforts in getting the letters mailed out in time and the awards engraved.

On May 11<sup>th</sup> we focused on strengthening our networks within the ACS and between other local societies with a multi-society networking event. Participants were able to join various breakout rooms to learn more about the different societies and groups within the ACS in the Delaware Valley. While there were many people who worked hard to make this event a success, a special thanks goes out to Candice Pellagra, Gangotri Dey, and David Hagan from AICHE.

On June 24<sup>th</sup>, we will celebrate our 50-, 60- and 70-year members with a special virtual gathering. While we are not offering our annual luncheon to celebrate these members due to COVID-19, I hope that you will join the virtual event to appropriately honor them. We will also be honoring last year's members whose event was also impacted by the pandemic. A special thank you to Sharon Haynie and Andreea Argintaru for coordinating this event.

As more and more members of our Society and community become vaccinated, it is looking like a reality that we might return to in-person meetings in the future. I am excited for some of the programming that we have in store for later this fall. I can't wait to see you there!

As always, please feel free to reach out with questions or to get more involved. [PhilaACS@gmail.com](mailto:PhilaACS@gmail.com)

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## NEWS ATOMS—Alan Warren

### DEATHS

**Theodore S. Sulkowski**, medicinal chemist, January 11, 2021 at 90. He worked for 6 years as a research chemist with Parke-Davis and then joined Wyeth Laboratories in 1961 where he served for 30 years. He was involved with drug development research that affected the central nervous system and then focused on the cardiovascular area. He held over 60 patents in these fields.

**William P. Hauser**, physical chemist, March 14<sup>th</sup> at 86. He was employed at NASA and then moved to DuPont where he served in the area of intellectual property. He developed patents for

many of the DuPont scientists. After retiring he co-founded the Wilmington office of Brene-man, Georges & Krikelis and continued his efforts in patent law. Hauser was also an accomplished photographer.

**Frank A. Welsh, III**, biochemistry professor, April 2<sup>nd</sup> at 77. He was a member of the neuro-surgery faculty at Penn's School of Medicine for 40 years. Welsh also conducted research on stroke and cerebral blood flow and published more than 80 technical articles. He was inspired by nature and visited Yosemite National Park almost every year.

**Alan Thomas Willoughby, Sr.**, Chemist, April 7<sup>th</sup> at 90. He served a long career with IBM as a systems engineer, retiring in 1991. He also loved music and theater and appeared in all of the Gilbert and Sullivan operas with the Savoy Company of Philadelphia.

## 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, résumé reviews, or mock interviews. Please send an email request to [acsphillycareerservices@gmail.com](mailto:acsphillycareerservices@gmail.com) to set up an appointment.*



Registration for the 2021 **virtual** MARM is open at <https://cvent.me/4x0oxl>  
The MARM website is: <http://marm2021.org>

*Co-hosted by the University of Delaware and the Delaware ACS Section.*

Highlights of the conference will include Undergraduate Poster Sessions, daily Plenary Lectures (by Profs. Donna Huryn, LaShanda Korley, and Dan Nocera), the Carothers and Regional Awards Symposium (featuring Dr. Allison Campbell), a BMGT-sponsored BILL Talk, a workshop for teachers on incorporating climate change examples into existing curricula, and *Chemagination*.

A virtual exhibit hall for both vendors and academic programs will also run.

**June 9-12**

***We can't wait to see you there!***





## Philadelphia Local Section

American Chemical Society - Philadelphia Local Section

### Congratulations!

Join us for the June virtual meeting to honor our **50-, 60- and 70-year Philadelphia ACS Members**. Learn about their background, impressive careers, and ask questions that will inspire us all.

#### WHEN?

THURSDAY, JUNE 24<sup>TH</sup> 2021, 2PM (ET)

Open to all members of the ACS Philadelphia Local Section using the [Zoom link](#) (Meeting ID: 834 5240 9399, Password: 070476).

Please submit your questions to: [philaacs@gmail.com](mailto:philaacs@gmail.com)

THANK YOU for being an ACS Philadelphia member!



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Facebook: @PhilaSectionACS



## 731<sup>st</sup> ACS Philadelphia Section Board of Directors Meeting

June 3, 2021

Via Teleconference

### CODE OF CONDUCT

As members of the Philadelphia Section of the ACS, we shall abide by the Chemists' Code of Conduct which states in part that "Chemical professionals should seek to advance chemical science while striving for the highest standards of scientific integrity. Chemical professionals should treat others with respect and will not engage in discrimination, harassment, bullying, dishonesty, fraud, misrepresentation, coercive manipulation, censorship, or other misconduct. Such actions apply to all professional, research, and learning environments."

### AGENDA

(Meeting will convene at **7:00 PM** and end promptly at 8:00 PM.)

- I. Roll Call
- II. Approval of Meeting Minutes
- III. Officers' Reports:
  - a. Chair – Christie McInnis
  - b. Chair-Elect – Ivona Sasimovich
  - c. Immediate Past Chair—Joe Martino
  - d. Secretary – Alan Heldon
  - e. Treasurer – Wei Wang
  - f. Chair of Council Affairs – Anne DeMasi
- IV. Committee Reports
  - a. Career Services – Jim Murray
- 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:**

<https://american-chemical-society.zoom.com/j/87338823608?pwd=L2hGcE14QUtHVzNhMnhSbzJjbFJQUt09>

Meeting ID: 873 3882 3608

Password: 460722

### **By Phone:**

Phone Number: 1-877-853-5247 or 1-888-788-0099

Access Code: 873 3882 3608

Password: 460722

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(267) 485-1792

## HONORING OUR 50-YEAR MEMBERS

Traditionally, the ACS Philadelphia Section honors our 50-, 60- and 70-year members for their service to the Society with an in-person banquet. Sadly, due to COVID-19 restrictions, our yearly banquet to honor these members in-person is not possible. To recognize these members for their service, we are publishing their biographies here, and with a special virtual gathering.

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### DR. ELEANOR (ELLIE) M. BROWN



In 1971, I received a PhD in Chemistry from Drexel University where I worked under Professor Fred Longo on the Kinetics of Metalloporphyrin Formation. Previously I had earned a BA from Ohio Wesleyan University and an MS from Drexel both in Chemistry. Upon graduation, I received a National Research Council postdoctoral fellowship to ERRC, ARS, USDA where I began the study of protein structure-function relationships in a variety of agriculturally important systems (dairy, poultry and leather). Between 1985 and 1995 I was part of a small team that pioneered the molecular modeling of the non-crystalline proteins, collagen and the caseins. In 2013, I received the IULTCS Merit Award for Excellence in the Leather Industry from the International Union of Leather Technologists and Chemists Societies.

I formally retired from ERRC in 2018, and continue working with my colleagues there as a Collaborator.

My ACS involvement at the national level included Council 1999-2004 and WCC 2001-2009. With the Local Section, I was a member of the Board of Directors 1986-1989 and 1991-1993.

I live in suburban Philadelphia and have a daughter and grandson in California.

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### DR. GORDON HOWARD



Gordon Howard's chemical education was in England at the University of Nottingham where his Honors Chemistry degree was followed immediately by doctoral work. His 1953 PhD thesis on polyelectrolytes in solution relied in large measure on experiments conducted on a brand-new ultracentrifuge. After military service, Dr. Howard joined the chemical industry to study molecular distribution in nylons, but after four years academia proved too tempting. His initial remit at the University of Manchester Institute of Science and Technology was to devise an undergraduate degree in Polymer Science. That completed, a hybrid Masters, half course work, half laboratory research was designed, all in addition to the traditional PhD. Until he retired from Manchester in late 1982, he had supervised some 40 graduate theses, all with a polymer theme, many with the polymers at interfaces. Shortly before his retirement, Manchester University had awarded him the research DSc degree. The transition to Philadelphia was occasioned by his wife (the other



Dr. Howard) establishing herself as a professor of Textile Chemistry here. In the early 1980s, Gordon spent two years as a visiting scientist in the Marshall Laboratory of DuPont before moving to Haverford College as a research associate in the chemistry department; a happy decade in a renowned undergraduate institution. Fully retired, without a laboratory: what is a chemist to do? One answer: a library. Thanks in part to the nearby historical society: their library contributed to a new enthusiasm; local history.

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### **BONNIE LAWLOR**



Bonnie Lawlor is retired from scientific publishing. She was most recently the Executive Director of the National Federation of Advanced Information Services (NFAIS), an international membership organization comprised of the world's leading content and information technology providers. Prior positions include Senior Vice President and General Manager of ProQuest's Library Division and Executive Vice President, Database Publishing at Thomson – ISI (now Clarivate Analytic).

Bonnie is active in the American Chemical Society, currently serving as a Councilor for the Division of Chemical Information and as an elected member of the Committee on Budget and Finance. She is past chair of both the ACS Committee on Copyrights and the Divisional Activities Committee, and served for six years each on the ACS Committee on Nominations and Elections, the Committee on Committees, and the Council Policy Committee. She also is the Chair of the Subcommittee on Publications – a unit of the IUPAC Committee on Publications and Cheminformatics Data Standards. For IUPAC, she also chairs the IUPAC Blockchain White paper Task Force. Lawlor serves on the Boards of the Chemical Structure Association Trust and the Philosopher's Information Center, the producer of the Philosopher's Index.

Ms. Lawlor earned a BS in Chemistry from Chestnut Hill College (Philadelphia), an MS in chemistry from St. Joseph's University (Philadelphia), and an MBA from the Wharton School, (University of Pennsylvania). She also took executive business management courses at INSEAD (Fontainebleau, France).

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### **MARGE MATTHEWS**



Marge Matthews grew up in South Orange, NJ as one of nine children. She received a BS in chemistry from Chestnut Hill College (CHC) and a MS in chemistry from St. Joseph's University. After graduation from CHC her intent was to return to North Jersey and get a job in one of the many chemical companies in NJ. One of her good friends had been hired at ISI (which became Thomson and is now Clarivate). She informed Marge there were openings so she applied for a job and was interviewed and hired

by Bonnie Lawlor, a CHC graduate and another 50-year member whose biography is also in



this issue. After 12 years in the chemical indexing and editing department, she applied for and was accepted into an inaugural programmer trainee program. For the next 30 plus years she did programming for most, if not all, of ISI's products. She was project lead when it was decided to create a CDROM product for Science Citation Index (SCI) and also project lead when SCI was developed for the web. In 2003 her position was eliminated and for the next four plus years she did various part-time jobs. One job was at the University of Pennsylvania working on *Organic Letters* as an assistant to Carol Carr another CHC graduate. While at Penn Marge was contacted by someone at Thomson about a job in the Chemical Documentation Department. She was interviewed and hired for the position. In 2014 most of the jobs in the department were moved to a Thomson facility in India so she was forced into retirement. When Marge's oldest brother turned 40, a siblings-only dinner was started and this tradition has been carried on for more than 35 years. Her parents would be happy to know their children enjoy each other's company. For more than 45 years she has volunteered for the ACS at the local level for the Philadelphia Local Section and at the national level for the Division of Chemical Information. In retirement Marge enjoys traveling, reading, and visiting with friends and her large extended family.

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### LAURA CANNON WILLIAMS



I grew up in Harrisburg, PA. I earned a Bachelor's in chemistry from the University of Pennsylvania and a Master's in education from Temple University.

While raising my family, I worked in the pharmaceutical industry and taught school in Philadelphia. I retired from GlaxoSmithKline in R&D as a quality assurance investigator.

I am a jewelry artist. Some of my primary interests besides science are reading, music, the arts, American and world history, genealogy and religion.

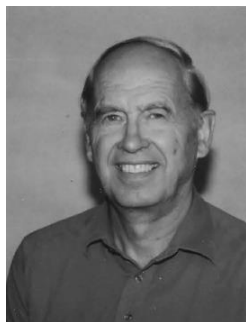
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## SECTION MEMBERS ALSO CELEBRATING 50 YEARS

Dr. Fadia Ali, Dr. Richard D. Bauer, Dr. Jeffrey Charles Boehm, Dr. Vinay Chowdhry, Dr. Christian Schilling Brosz, Dr. Sandra Cottrell, Mr. Edmund William Frick, Dr. Dennis Kiyoshi Fujii, Dr. Gretchen R. Hall, Dr. Casimir S. Ilenda, Dr. Marilyn Schuman Jorns, Ms. Paula Theresa Klimiuk, Dr. Joseph Cleveland Koziar, Dr. John Joseph Leonard, Dr. Cynthia A. Maryanoff, Mr. Charles J. McDonough, Mr. David Fred McComsey, Dr. James L. Reilly, Dr. Philmore Robertson, Jr., Dr. Philip G. Russell, Dr. Frederick Schindler, Dr. James Jii Shieh, Dr. Martin Jeffery Shoemaker, Dr. John Crafts Thompson and Dr. Larry Weaner.

## SECTION MEMBERS CELEBRATING 60 YEARS

### DR. ENGELBERT CIGANEK



Born October 19, 1930, Prague. Czechoslovakia.

Diplomchemiker degree, Erlangen University, Germany, 1956

PhD Massachusetts Institute of Technology, 1959.

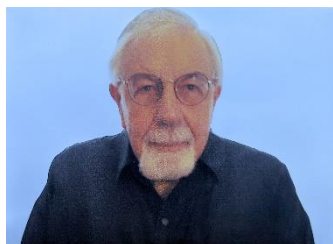
Spent entire career at DuPont, first in the Central Research Department, then in the Medical Products Department, and finally at the DuPont-Merck Pharmaceutical Company. Retired in 1994.

Joined the Editorial Board of *Organic Reactions* in 1983, first as one of the editors, since 2000 as the editorial advisor.

Married Mary Jo Gillen of Wabash, Indiana, in 1961, four children, five grandchildren.

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### DR. PETER E. MANNI



The appeal of a science education led me to take a competitive exam for placement at New York's Stuyvesant High School. Upon graduation I entered St. John's University, receiving a BS in Pharmacy. Postgraduate studies in chemistry followed: MS, University of Rhode Island, PhD, University of Michigan. An NIH Postdoctoral Fellowship allowed me to work in the laboratory of Professor Carl Djerassi at Stanford University.

My first job as a chemist was at Liggett & Myers Tobacco Co., identifying flavorants and aromatics in Turkish tobacco. Next, I joined Purdue University, College of Pharmacy to teach drug analysis and graduate courses. A career in the pharmaceutical industry followed, first at Pennwalt Corporation's Pharmaceutical Division, and later at SmithKline Beecham Corp., from which I retired as Vice President of Quality Assurance. Six years of consulting followed.

My business career was fulfilling, but my greatest source of satisfaction has been my family-my wife of 48 years, Rebecca, and our two sons. My time is filled with various activities such as reading, photography, volunteering at the retirement community in which I live, and writing short stories for a local magazine.

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## SECTION MEMBERS ALSO CELEBRATING 60 YEARS

Dr. John S. Babiec, Jr., Mr. Thomas G. Brown, Dr. Gary W. Ceska, Mr. Salvatore Digiovanni, Mr. E. David Hochberg, Dr. Robert J. Kobrin, Dr. George J. Maass, Dr. Edward Conley Mur-

ray, Dr. A. Hirotoishi Nishikawa, Dr. Robert Pasternack, Mr. Donald C. Ruddy, Mr. Andrew Joseph Saggiomo and Mr. George J. Weihs.

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## SECTION MEMBERS CELEBRATING 70 YEARS

### FRANK SHANNAHAN



1950: Bachelor of Chemical Engineering, Catholic University of America, Washington, DC.

1950-1955: Employed by Allied Chemical, Marcus Hook, PA and Baton Rouge, LA.

1955-1970: Employed by Pennsylvania Salt and Mfg. Co., Whitemarsh, PA and Philadelphia, PA.

1970-1975: Employed by Pennwalt (Plant Manager), Wyandotte, MI.

1975-1979: Employed by Pennwalt (Plant Manager), Calvert City, KY.

1979-1983: Employed by Pennwalt (Production Manager), Philadelphia, PA.

1983-1987: Employed by Pennwalt (Division Manager), Philadelphia, PA.

1987-1992: Employed by Total Petrochemicals, (General Manager, Construction Engineer, Safety, Health and Environmental Activities), King of Prussia, PA.

1992: Retired.

Member: American Institute of Chemical Engineers

I had a great challenging career in the chemical industry. Over many years I established long-time friendships with customers, suppliers, competitors, contractors and our own employees.

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### CHARLES S. STOKES



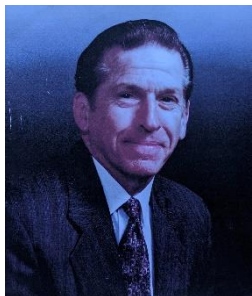
A native of Philadelphia, Charles graduated from Ursinus College in 1951 with a BS in Chemistry and received an MA in Chemistry from Temple University in 1953. From 1953 to 1986 he was a Research Associate and later Manager of the Elverson Test Facility for the Research Institute of Temple University. In 1984, the laboratories became part of the Franklin Research Center. In 1987, he became Head of the Applied Sciences Department and later Director of the Center until retirement in 1993.

As a project leader in the area of chemical release sounding rocket payloads, he participated in more than 100 payload launches for NASA and the Air Force. He led space projects that resulted in the launch of two chemical release satellites for NASA. His work also included research in plasma jet chemistry, detonation studies, coal-oil combustion and high temperature reactions. He has over 50 publication in his fields of expertise and holds 5 patents.

He has served as president of the Pennsylvania section of the American Institute of Chemists and vice president of the local section of the AIAA in years past.

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### DR. THEODORE S. SULKOWSKI



Principal Research Scientist II in Chemical Sciences, retired with 36 years of service. After receiving his BS in Chemistry from St. Vincent College, Dr. Sulkowski worked as a Research Chemist for six years with Parke-Davis. He then pursued his PhD in Chemistry at Wayne State University.

Dr. Sulkowski joined Wyeth Laboratories in 1961, initially contributing to the development of drugs affecting the central nervous system, including the antidepressant Serax. His initial work, the synthesis of benzodiazepines, evolved into the development of anorectic agents. Mazanor (mazindol), a non-amphetamine anorectic agent with antidepressant properties was marketed by Wyeth. It was licensed to and marketed by Sandoz as Sanorex. Thirty-five US Patents were granted in this area.

The last 25 years of Dr. Sulkowski's work has been in the cardiovascular arena. He helped initiate the early chemical programs for the discovery of antiarrhythmic agents, calcium antagonists, protein kinase C inhibitors, and tyrosine kinase inhibitors.

Recainarn, a novel antiarrhythmic agent, reached Phase III clinical trials. His most recent efforts in atherosclerosis, specifically the HDL Elevator Program, have resulted in the placement of three compounds on pre-project track, all of which came from his group. Dr. Sulkowski has been issued 59 patents to date, with an additional 14 patents pending for his work.

According to Dr. Sulkowski, "The aspect of my work I enjoyed most and will truly miss is the interaction with the people, particularly my colleagues in the biological sciences. These relationships were synergistic and greatly increased my effectiveness as a medicinal chemist. I hope that I have reciprocated." Thirty-six years went by very quickly. He attributes this to his enjoyment of medicinal chemistry. "I leave with very good feelings of a long career, but I never considered my work primarily as a career," he explains. "I truly enjoyed the challenges of working on new and diverse therapeutic targets."

Ted feels that Princeton was a great place to work, except that the nine years of commuting from Radnor truly eroded his quality of life. His first priority in retirement is to re-establish that quality. Ted will also rekindle several interests that have been placed by the wayside. He is an avid gardener looking forward to some time to travel and hike with his spouse Mary. They will also indulge further in their hobby of art collecting. A newer but important past-time is three beautiful grandchildren, all arriving within the last four months, two of which are twins!

*[Editor's note: Dr. Sulkowski passed away in January of this year.]*



## SECTION MEMBERS ALSO CELEBRATING 70 YEARS

Mr. Edward J. Bartoszek, Ms. Margaret A. Carroll, Dr. Sydney W. Fleming, Dr. John C. Godfrey, Dr. Albert Goodman, Dr. Roger K. Graham, Mr. Rudolf Grun, Dr. Warren F. Hale, Dr. Charles Shambelan, Mr. William C. Young and Dr. Frances R. Zwanzig.

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### OPPORTUNITIES TO VOLUNTEER

*Younger Chemist Committee Communications and Outreach Leader:* 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 in need of a volunteer to send out a weekly email reminding Committee members of upcoming events. Assistance with preparing flyers for events would also be greatly appreciated. Additional responsibilities would include outreach to local universities and companies to ensure the information about upcoming events are getting to the target audiences. The estimated time commitment would be an hour a week.

*Younger Chemist Committee Program and Event Planning Volunteers:* The Committee is looking for volunteers to help with program and event planning. This includes assisting with a poster session held in collaboration with several other local YCCs on the eastern seaboard and creating events for the fall. Many hands make light work, so several volunteers are needed in this capacity. The estimated time commitment would vary based on proximity to the event, but could be expected to range from 10-75 hours total per event depending on the elaborateness of the event.

**Volunteer to judge posters or represent your company at the 2021 ACS Eastern US YCC Partnership Research Symposium & Chemistry Career Expo: Younger Chemists Transforming the World Through Chemistry!** Mentor student scientists from across the Eastern US by judging their posters and offering constructive feedback. Share your career journey by representing your company at the Chemistry Career Expo and networking sessions organized at the local section level to open and encourage meaningful dialogue, and to provide opportunities for students to interact with industry recruiters and graduate school representatives. **Contact [ycccollaboration@gmail.com](mailto:ycccollaboration@gmail.com) with any questions. [Click here to register!](#)**



## CALL FOR NOMINATIONS

### 2021 ACS PHILADELPHIA SECTION AWARD

Notice is hereby given that the ACS Philadelphia Section invites its members as well as Regional and Topical Groups to nominate candidates for the 2021 ACS Philadelphia Section Award.

This Award shall be presented "to one member of the Section, or in exceptional circumstances to two members of the Section jointly, who by conspicuous scientific achievement has made important contributions to the field of chemistry and thereby aided the public appreciate of the profession." (ACS Philadelphia Section Bylaw X, §1.) Any member of the ACS Philadelphia Section may be nominated.

### INSTRUCTIONS FOR SUBMITTING NOMINATIONS

- 1) Provide a CV of the nominee.
- 2) One or two seconding letters.
- 3) Nominators and seconders contact information.
- 4) Unsuccessful nominees from previous years may be renominated.

August 1, 2021

DEADLINE



PhilaACS@gmail.com

SUBMIT TO

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## 2021 Scholastic Achievement Award Winners



**Desiree L. Amaya (Arcadia University)**

My future plans are to pursue a PhD in Biomedical Sciences, with a focus in Integrative Physiology at Thomas Jefferson University. I am interested in researching the biochemical mechanisms of disease to learn more about why diseases occur and how they can be prevented.

**Mairin M. Higgins (Arcadia University)**

I am in Arcadia University's 3+2 forensic science program, so I will be completing a Master of Science in Forensic Science. Starting in late May, I will be working on a research project with Dr. Karen Scott and Immunalysis in California to determine the stability of ethanol in oral fluid samples using ELISA and HS-GC/MS. After I complete my graduate program, I hope to work as a forensic toxicologist in a crime lab and to continue to do research.



**Claire Tuttle (Bryn Mawr College)**



**Johnathan Torikashvili (Drexel University)**

After graduation this June, I plan to apply to medical school, continue research work with my university professors, and help repair the damages COVID has spread in my community.

**Olivia A. Wynn**

My name is Olivia Wynn and I am from Limerick, PA. After graduating from Eastern University with BS in biochemistry and a minor in chemistry, I am planning on pursuing a career in the pharmaceutical industry as a biological technician.





## **Grayson Hamrick (Haverford College)**

After graduation, I'll be attending the Duke University Pratt School of Engineering to pursue a PhD in Biomedical Engineering, researching synthetic biology, microbial consortia, and gene circuits with Dr. Lingchong You.

## **Evan M. Fox (La Salle University)**

I will be attending Texas A&M University in the fall for the chemistry PhD program. I hope to focus on organic polymers and materials chemistry for research.



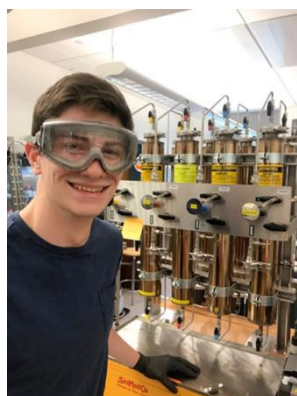
## **Madisyn Peoples (Philadelphia University)**



I plan to work in a research lab to gain more experience over the next year, and then I will get my PhD in Biophysics and contribute to oncology research.

## **Claire Berger (Saint Joseph's University)**

I will be starting medical school this fall at the Philadelphia College of Osteopathic Medicine!



## **Judah Raab (Swarthmore College)**

After graduation, I'll be moving to LA to start my Chemistry PhD at UCLA.



## **Nikita Borisonnik (Temple University)**

As my college career ends, I am focusing on entering the field of chemical engineering where I look forward to applying the knowledge I gained throughout my classes at Temple University to the real world. I am especially interested in the field of process engineering where I would be able to apply my knowledge of laboratory techniques to scale up the discoveries of researchers to a commercial scale. I am also interested in the fields of materials engineering and applications engineering. Meanwhile, I will continue to conduct biochemical research under Dr. Richard Pomerantz at Thomas Jefferson University. The focus of the research is investigating mutagenic double-strand DNA repair pathways, such as micro-homology mediated end-joining, which contribute to genome instability and promote the proliferation of cancer cells. Also, the laboratory research has focused on developing inhibitors for DNA polymerase theta (an enzyme that is significantly upregulated in breast cancers and is involved in error prone DNA repair) for potential use in cancer therapy.



## **Adam Mangold (Temple University)**

I'm going to be working in the lab of Dr. John Elrod at the Lewis Katz School of Medicine at Temple University for the remainder of the summer (this is my 4<sup>th</sup> summer with him), and then I will begin medical school this fall at Cooper Medical School of Rowan University in Camden, beginning in August.



## **Heryn Wang (University of Pennsylvania)**

After graduation, I will be pursuing my PhD in inorganic chemistry at University of Illinois--Urbana Champaign.

## **Chase Novak (University of Pennsylvania)**

After graduating, I will be doing a summer internship at DuPont in their Electronics & Industrial Department. In the fall, I will begin a one-year Master's Degree at MIT as part of their Chemical Engineering Practice School.



## **Thomas Webster (University of the Sciences)**

After graduation I will be starting a PhD program in pharmaceutical sciences at the University of Nebraska Medical Center.



**Julie Nguyen (University of the Sciences)**

I will be interning at NIH/NIDA over the summer and I am planning on attending medical school afterwards.

**Matthew Balestriere (Ursinus College)**

I plan on working within the chemical industry for a few years, ideally at R&D companies before applying to medical school within the near future.



**Julianna Cresti (Villanova University)**



After I graduate from Villanova University this May, I will attend the University of Michigan beginning this fall to work toward my PhD in Molecular, Cellular, and Developmental Biology.

**Noah Seng DeLong (Villanova University)**

Noah's post-graduation plans are with Walmart eCommerce, where he hopes to gain experience leading and developing others within a process-oriented and continuous improvement environment as an Area Manager. He hopes to return to graduate school in the future to obtain an advanced technical degree in chemical engineering that builds on his research experiences as an undergraduate and a Master's in Business Administration.



**Yeseena Alli (West Chester University)**

I will be attending Drexel University College of Medicine in the fall.



**Kyle Shaffer (West Chester University)**

After graduation, I plan on spending some time over the summer reading and exploring new places I've never been to before. In the Fall of 2021, I have the honor of attending the University of Pennsylvania as a Chemistry PhD graduate student within the Biological division.

**Aidan Looby (Widener University)**

I am going to the University of Houston for a PhD in Organic Chemistry.

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### **Inspiring Quotes**

There is an eloquence in true enthusiasm ~ Washington Irving

More than cleverness, we need kindness and gentleness ~ Charlie Chaplin

Humility is not thinking less of yourself, it is thinking of yourself less ~ Rick Warren

You must do the thing you think you cannot do ~ Eleanor Roosevelt

The mind is like a car battery—it recharges by running ~ Bill Watterson

No person is your friend who demands your silence, or denies your right to grow ~ Alice Walker

## Congratulations Class of 2021 Graduates!

Desiree L. Amaya, Arcadia University, Chemistry  
Mairin M. Higgins, Arcadia University, Chemistry  
Brendan R. Kuzminski, Arcadia University, Chemistry  
Gabriella E. Ravin Arcadia, University, Chemistry  
Alesha Arshad, Drexel University  
Jason Bowker, Drexel University  
Madeline Brent, Drexel University  
Meriel Caprioglio-Chase, Drexel University  
Jennifer Duong, Drexel University  
Prachi Gupta, Drexel University  
Victoria Jacob, Drexel University  
Chaselynn Jiannotti, Drexel University  
Eun Byoung Kang, Drexel University  
Joseph Kelleher, Drexel University  
Marisa Panichelli, Drexel University  
Hannah Pepper, Drexel University  
Nicole Rendine, Drexel University  
Francesca Scotto, Drexel University  
Brandon Sirochinsky, Drexel University  
Richard Tabarrini, Drexel University  
Johnathan Torikashvili, Drexel University  
Osmar Torres Herrera, Drexel University  
Anxin Xie, Drexel University  
Theresa Cummings, Eastern University, Biochemistry and Chemistry  
Malicka A. Encarnacion, Eastern University, Biochemistry  
Karissa MacCentelli, Eastern University, Chemistry  
Daniel Logan McEntire, Eastern University, Biochemistry and Mathematics  
Meredith J. Vesey, Eastern University, Biochemistry  
Olivia A. Wynn, Eastern University, Biochemistry  
Alex D. Nagy, La Salle University  
Katherine J. Weiss, La Salle University  
Braden J. Clark, La Salle University  
Evan M. Fox, La Salle University  
Elizabeth Johnney, La Salle University  
Gelsey Garcia, Rutgers Camden  
Gemma Giraldo, Rutgers Camden  
Jennifer Klanchar, Rutgers Camden  
Alexander Kousoulis, Rutgers Camden  
Emily Mcdermott, Rutgers Camden

Diaab Medley-Davis, Rutgers Camden  
Monserrath Mendoza-Martinez, Rutgers Camden  
Ami Reader, Rutgers Camden  
Marieta Thuku, Rutgers Camden  
Linda Zheng-Garcia, Rutgers Camden  
Claire Berger, Saint Joseph's University Chemistry  
Jordan Butt, Saint Joseph's University, Chemistry  
Colette Makara, Saint Joseph's University, Chemistry  
Carly Malestein, Saint Joseph's University, Chemistry  
Luke McDonald, Saint Joseph's University, Chemistry  
Zachary Putman, Saint Joseph's University, Chemistry  
Dana Beseiso, Swarthmore College, Biochemistry  
Christopher (Chris) Chung, Swarthmore College, Biochemistry  
Alec Ferry, Swarthmore College, Chemistry  
Ainsley (Tori) Knox, Swarthmore College, Biochemistry  
Hyun Kyung Lee, Swarthmore College, Chemistry  
Mika Maenaga, Swarthmore College, Chemistry  
Judah Raab, Swarthmore College, Chemistry  
Erik-Stephane Stancofski, Swarthmore College, Biochemistry  
Tiara Tillis Tillis, Swarthmore College, Biochemistry  
Narine Vapuryan, Swarthmore College, Biochemistry  
Ariana Yett, Swarthmore College, Chemistry  
Connor Rolleston, Temple University, Biochemistry  
Akinlade Akintunde, Temple University, Chemistry  
Mohammad A A M H Alhosaini, Temple University, Chemistry  
Aya Al-Nazal, Temple University, Biochemistry  
Marissa Bacon, Temple University, Biochemistry  
Rojin Baniyasi, Temple University, Biochemistry  
Tanner Barone, Temple University, Biochemistry  
Manish Bayana, Temple University, Biochemistry  
Nikita Borisonnik, Temple University, Chemistry  
Christina Broskey, Temple University, Biochemistry  
Tien Bui, Temple University, Chemistry  
Alex Byrne, Temple University, Chemistry



Kerim Cakir, Temple University, Biochemistry  
Michael Campos, Temple University, Chemistry  
Erica Chaban, Temple University, Biochemistry  
Ivy Chen, Temple University, Biochemistry  
Eric Collins, Temple University, Biochemistry  
Madison Daly, Temple University, Chemistry  
Mandy Dang, Temple University, Biochemistry  
Jacob Dewey, Temple University, Biochemistry  
Tesneem El-Kheir, Temple University, Chemistry  
Karaiman Feroz, Temple University, Biochemistry  
Viktor Garliyev, Temple University, Biochemistry  
Bonnie Haggerty, Temple University, Chemistry  
Evan Haley, Temple University, Chemistry  
Gunnar Jackson, Temple University, Biochemistry  
Kishan Kaneria, Temple University, Biochemistry  
Matthew Kerr, Temple University, Chemistry  
Ali Khajah, Temple University, Chemistry  
Allison Klenk, Temple University, Chemistry  
Joel Koshy, Temple University, Biochemistry  
Janet Lam, Temple University, Biochemistry  
Nathan Mackouse, Temple University, Chemistry  
Adam Mangold, Temple University, Biochemistry  
Mariah Maynard, Temple University, Chemistry  
Malik McClamy, Temple University, Biochemistry  
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Rifat Nabi, Temple University, Biochemistry  
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Emilie Ritter, Temple University, Biochemistry  
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Joshua Schaaf, Temple University, Biochemistry  
Gabriella Shumyatsky, Temple University, Biochemistry  
Shahlo Solieva, Temple University, Chemistry  
Anthony Strong, Temple University, Biochemistry  
Hung Vo, Temple University, Chemistry  
Tobias Warren, Temple University, Biochemistry  
Alyssa Weidner, Temple University, Chemistry

Lilly Raéna, University of the Sciences  
Jauhola-Straight Rebekah, University of the Sciences  
Mitkowski Richard, University of the Sciences  
Mallozzi Sabrina, University of the Sciences  
Savage Sarina, University of the Sciences  
Webster Thomas, University of the Sciences  
Matthew Balestriere, Ursinus College  
Michael Bonfiglio, Ursinus College  
Emily Franz, Ursinus College  
Riley Grouke, Ursinus College  
Brendan Jacobi, Ursinus College  
Meghan O'Leary, Ursinus College  
Joseph Pantel, Ursinus College  
Michael Prior Ursinus College  
Nicole Schmalbach, Ursinus College  
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