



ACS Local Section
Cincinnati

CINTACS

Newsletter of the Cincinnati Section of the American Chemical Society

VOLUME 55, ISSUE 2

FEBRUARY 2021

SPECIAL POINTS OF INTEREST:

- Reservation for Feb 25 Monthly Meeting on history and chemistry of glass
- Reservation for March 3 Organic Discussion Group meeting
- Survey to choose best day and time for Analytical Chemistry Discussion Group in mid-March

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February Section Meeting

February Monthly Meeting
Thursday, February 25, 2021
Virtual via ZOOM

Featured Speaker

Mary Virginia Orna,
Professor Emerita of Chemistry, College of New Rochelle

Program:

6:45 – 7:00 Social interactions and introduction to Zoom for new users

7:00 – 8:00 Featured Speaker,
Mary Virginia Orna
“From Sand to Solar Cells: How Glass Changed the World”

Glass is one of the most universally used and most ancient substances known. We take glass for granted, forgetting that to ancient peoples, it was a rare luxury. Although it seems like a simple substance, its chemistry and technology are complex: there is still a bit of Black Magic in its production and makeup. This talk will highlight its history, its chemistry, its technology, and its development as an indispensable substance from antiquity to modern times. — Mary Virginia Orna



Reservations: Register in advance for this meeting:

<https://american-chemical-society.zoom.com/meeting/register/tZlkfu-vrTgiGtV90M09xOhsiChb5kDRB2I3>

After registering, you will receive a confirmation email containing information about joining the meeting.

The CINTACS Newsletter
Volume 55, No. 2
February, 2021

CINTACS is published nine times per year (September through May) by the Cincinnati Section of the American Chemical Society.

Guest Editor for February: Susan Marine

A permanent editor is needed. In the meantime, send submissions to Susan Marine (mariness@miamioh.edu).



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From the Chair:

I am excited to be hosting Sr. Mary Virginia Orna as our first speaker in 2021. I have known Mary Virginia for many years and have gained much from her mentorship, especially concerning the chemistry of color and teaching chemistry and art as study abroad courses.

This presentation is the first of my suggested “pairing” events with lectures and field trips. This month we will learn about the history and chemistry of glass. Then when the pandemic restrictions are eased and we can gather in person (April? May?), we will visit Neusole Glassworks for hands-on demonstrations of hot glass work. In the fall I hope to schedule a lecture and activity focused on ceramics or pottery. In the meantime, like the rest of the world, we are on a hold-and-wait schedule.

In the meantime, virtual meetings save travel time to our ACS meetings and provide more opportunities to meet in small groups to address topics of interest in greater depth through our Discussion Groups. I am happy to introduce our first discussion on March 3 organized by Rick Mullins. Details are listed on page 3. Vasileia Vogiazis is planning an analytical discussion in mid-March; plans are on page 4. Please complete her survey to choose a date and time. These in-depth topics nicely complement the monthly meetings which provide topics of general interest.

Please join us for the various activities in 2021. I would love to see our younger chemists organize and conduct a chemistry trivia night and our senior chemists organize a Careers in Chemistry Day for the fall. There are many opportunities to share and to learn in this ACS local section! Contact me with your ideas; let’s make them happen. — Susan Marine

Shout Out:

Thank you to two volunteers who have stepped forward to serve our section: **Vasileia Vogiazis** *Analytical Discussion Group leader*
Zhiwei Shi *Colloid/Polymer Discussion Group Leader*

In 2021 many activities are planned to benefit our members. But volunteers are needed to make them happen! The list of Committee Chairs still shows several open positions. Most committees also need more committee members to complete their activities or expand what they can do. Hot links exist in the Committee Chair list to allow you to contact the chairs and volunteer your services or learn more about the committee.

There is a myriad of ways to participate in the ACS Cincinnati Local Section. I invite you to join us and work with some great people.



Dr. Mary Virginia Orna

Sister Mary Virginia Orna, O.S.U. (Order of Saint Ursula) is Professor Emerita of Chemistry at the College of New Rochelle. She is also former Director of Educational Services at the Chemical Heritage Foundation and former Publications Coordinator of the *Journal of Chemical Education*. She received her Ph.D. from Fordham University. She has lectured and published widely in the areas of color chemistry and archaeological chemistry. Her articles have appeared in the *Journal of Chemical Education*, *Color Research and Application*, *Studies in Conservation*, *Analytical Chemistry*, *Microchemical Journal*, *Journal of Biological Chemistry*, American Chemical Society monographs, and various other journals. She has also authored numerous books, book chapters, and encyclopedia articles. She is active in several divisions of the American Chemical Society, having served as Chair, Program Chair, and Treasurer of the Division of the History of Chemistry. She is currently serving as ACS Councilor and a member of the ACS Local Section Activities Committee. She served as Treasurer and Member of the Examinations Institute Board of Trustees of the Division of Chemical Education for 12 years. She is the recipient of many awards, including the Chemical Manufacturing Association's Catalyst Award for excellence in college chemistry teaching (1984), the American Chemical Society's 1999 George C. Pimentel Award in Chemical Education, and the 2009 ACS National Award for Volunteer Service. She was a Fulbright Fellow in Israel (1994-1995). She is presently President of "ChemSource, Inc." a major effort in chemistry teacher preparation and enhancement funded by the NSF. As a hobby, she enjoys constructing crossword puzzles and has been a frequent contributor to the *Sunday New York Times*, *Today's Chemist*, and other publications. She is presently writing a book on pigments under contract with the Royal Society of Chemistry.

Organic Chemistry Discussion Group Announcement

For the first organic chemistry discussion group this year (and in many years), come hear Emily Kerr, graduate of Xavier University and current Ph.D. student at Harvard University, discuss her work on developing organic electrolytes for aqueous redox flow batteries. This topic, spanning multiple disciplines of chemistry, should offer something for all. The discussion group will take place via Zoom on **Wednesday, March 3 at 7 pm**. Two links are provided below for papers to read prior to the discussion group. Reading the papers is, of course, not mandatory, but it will make for a better discussion. Hope to see everyone there. Please feel free to invite students and colleagues, even if not ACS members, to attend.

Register here to receive the Zoom meeting link:

<https://american-chemical-society.zoom.com/meeting/register/tZESfu2prjwsH9a3TJEup7L3eykq0CazUAvU>

It is our intention to continue discussion groups that highlight the work of local or once-local chemists. If you know of someone who has done interesting work that you think would make for a good focus group, please let Rick Mullins know by emailing at mullinsr@xavier.edu.

Recommended (not required) reading prior to the March 3 Organic Discussion Group meeting:

[Alkaline Quinone Flow Battery with Long Lifetime at pH 12 \(cell.com\)](https://www.cell.com/joule/pdf/S2542-4351(18)30291-5.pdf)

([https://www.cell.com/joule/pdf/S2542-4351\(18\)30291-5.pdf](https://www.cell.com/joule/pdf/S2542-4351(18)30291-5.pdf))

[Molecular Engineering of an Alkaline Naphthoquinone Flow Battery | ACS Energy Letters](https://pubs.acs.org/doi/pdf/10.1021/acsenergylett.9b01321)

(<https://pubs.acs.org/doi/pdf/10.1021/acsenergylett.9b01321>)



Analytical Discussion Group Plans for March!

The Analytical Discussion Group meeting is a great opportunity for ACS members to come together as a community and discuss important topics in the field of Analytical Chemistry. The purpose of this meeting is to engage analytical chemists and those who work with analytical chemistry to develop or optimize a new analytical technique or methodology. The topic

of this discussion group will be Challenges in Analytical Chemistry. In this respect, the meeting will include an invited headline speaker and potentially one-slide presentations from participants followed by discussion of the information presented. We encourage the participants to complete this survey to help us determine the final structure of this meeting and a possible date/time during the week March 15-19.

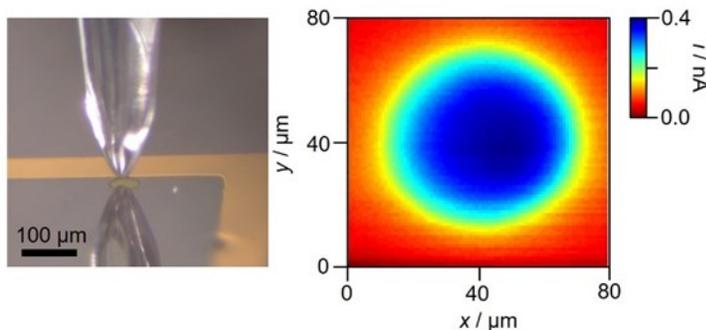
Please complete survey to select date and time.

<https://www.surveymonkey.com/r/LH567J5>

Dr. Vasileia Vogiazzi will be leading this discussion group. She is an analytical chemist and a recent graduate from University of Cincinnati with a Ph.D. in Environmental Engineering. Dr. Vogiazzi's expertise is the development of electrochemical, spectroscopic and aptamer-based sensors for environmental and medical applications. Due to the interdisciplinary nature of her research she had the opportunity to expand her endeavors in the field of analytical and bioanalytical chemistry and environmental monitoring. Based on her experience, multidisciplinary projects have major research challenges to overcome and multiple hypotheses to prove. In this respect, she envisions a fruitful and constructive discussion that emphasizes how challenges in developing analytical methodologies and techniques are part of research. She mentioned that "My goal as a discussion group leader is to raise awareness of unpredictable obstacles during the development of analytical methodologies. It is normal to come across many challenges, and our job in analytical research is to tackle the issues and overcome those challenges. We are here to solve hard things; the easy ones are already solved."

Our discussion group speaker will be **Dr. Robert Lazenby**, who is an analytical electrochemist, working as an Assistant Professor in the Department of Chemistry and Biochemistry at the Florida State University, FL. Dr. Lazenby pursued a Ph.D. in Chemistry at the University of Warwick, England where he developed electro-chemical microscopy techniques. He completed his post-doctoral work at the University of Maryland Baltimore County and the University of Cincinnati using biosensing platforms, including ion channels and electrochemical, aptamer-based sensors. His research interests are in electroanalytical chemistry and high-resolution electrochemical imaging. In this respect, Dr. Robert Lazenby will present and discuss challenges in scanned probe electrochemical microscopy for analytical applications in imaging and chemical sensing. It is hoped that presenting the technical considerations involved when performing imaging experiments will generate useful discussion for those interested in using and applying these techniques.

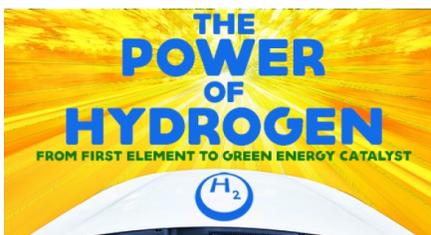
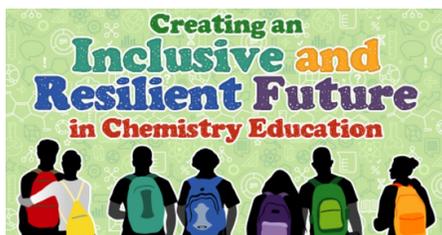
If there is interest, we could continue our discussion with ONE slide (2–3-minute presentations) per person followed by discussion of the information presented. Let Dr. Vogiazzi know if you are willing to share one slide. (vas.vogiazzi@gmail.com)



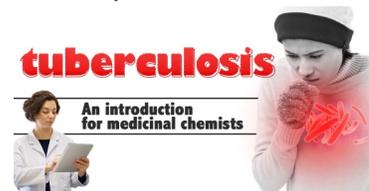
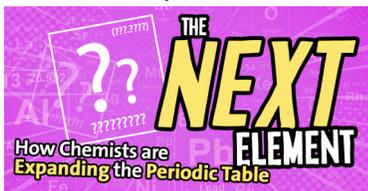
Upcoming Webinars

Go to <https://www.acs.org/content/acs/en/acs-webinars.html> for more information and to register for these free Zoom webinars.

February 10 2:00-3:00 ET Creating an Inclusive and Resilient Future in Chemical Ed.
February 11 1:00-2:00 ET The Power of Hydrogen



Another benefit of your ACS membership is online access to past, archived webinars. Check them out at www.acs.org/webinars. Preview the ACS Webinars Library by viewing these three, open recordings. Access to over 250 past broadcasts is just one of the many benefits of ACS Membership.



CALL FOR NOMINATIONS

This past year has been difficult, and we all have faced many challenges. Everyone could use some positivity in their lives. The Cincinnati Section of the ACS has several awards that are given annually, and it is more important than ever to recognize individuals for their outstanding contributions to advance chemistry and inspire future generations. We encourage you to recognize these individuals.

Chemist and Technician of the Year

The Cincinnati Local Section of the American Chemical Society is requesting nominations for Chemist and Technician of the Year Award. These awards recognize outstanding individuals who work in chemistry-related fields and have made significant contributions to a chemistry related-field, society, and the community.



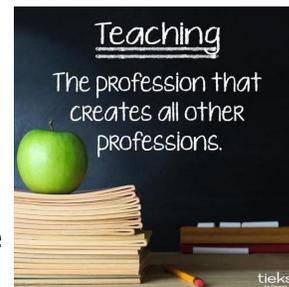
The **Chemist/Researcher of the Year** is required to be a local ACS member in good standing. Nomination requires two letters of recommendation and a CV.

The **Technician/Chemical Technologist of the Year** is not required to be an ACS member. One letter of recommendation and a CV should be submitted for consideration.

Nominations and letters of recommendation for these are due by **February 20, 2021**. Awards will be given at our March Cincinnati ACS meeting. Please contact Jay Eylem (eylem.j@pg.com) for more information or to forward nominations.

Excellence in Teaching Awards

Each year the Cincinnati section recognizes outstanding local teachers with our Excellence in Teaching Awards. We are seeking teachers who make a difference in students' lives through excellent, innovative teaching methods, who encourage students to pursue science, and who have shown a dedication to their profession. High School Chemistry teachers and Middle School and Primary Science teachers are eligible; each level will be awarded separately. If you know of a teacher who should be recognized (your child's favorite science teacher?), send their name, school, and school district to Lynn Hogue, lynnhoguets@gmail.com. We will pursue letters of recommendation. Nominations are due by **March 15, 2021**. These awards will be given at the April Cincinnati ACS meeting.



Chemist of the Year! Technician of the Year!
— coming during the week of March 22-26, 2021 —

Hold the Date: March 22-26, 2021

March Meeting

The second monthly meeting of 2021 will be in March at 7 PM. The **Chemist of the Year** and the **Technician of the Year** will be honored. The date will depend on the honorees' schedules during the week March 22-26. This will be a virtual meeting; free registration is required to obtain the Zoom details. Save the date; details will be coming in the March

Deadlines and Scheduled Events

Feb 20	Chemist and Technician of the Year nominations due
Feb 25	Monthly meeting: How Glass Changed the World (virtual meeting)
March 1	ACS Scholar application due
March 3	Organic Chemistry Discussion Group
March 15-19?	Analytical Discussion Group
March 22-26?	Monthly meeting; Chemist and Technician of the Year!
March 31	ACS Bridges Program Fellow applications due
April 5-30	ACS National Meeting online; April 5-16 oral presentations
April 15	Awards Night monthly meeting
April 18-24	Chemists Celebrate Earth Week (CCEW)
June 6	Great Lakes Regional Meeting online
Aug 22-26	National ACS Meeting in Atlanta and online
Oct 20	Midwest Regional Meeting in Springfield, MO