Have Questions?

Type them into questions box!

“Why am I muted?”
Don’t worry. Everyone is muted except the presenter and host.
Thank you and enjoy the show.

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  - Learn how to write better abstracts, deliver more engaging presentations, and network to your next dream job. Brush up on your soft skills and set a new career path by mastering what can not be taught in the lab.

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  - Why does food taste better when it is grilled or what molecular compounds make a great wine? Discover the delectable science of your favorite food and drink and don’t forget to come back for a second helping.

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- **Business & Entrepreneurship**
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  - How do ideas make it from the lab to the real world? Discover the ins and outs of the chemical industry whether you are looking to start a business or desire a priceless industry-wide perspective.

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ACS Career Navigator: Your Home for Career Services

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- Professional Education
- Virtual Career Consultants
- ACS Leadership Development System
- Career Navigator LIVE!
- ChemIDP
- College to Career
- ACS Webinars
- Virtual Classrooms

Visit www.ACS.org/COVID19-Network to learn more!

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- **INTERVIEWING in a COVID World**
  - Wednesday, July 1, 2020 at 2:30pm ET
  - Speaker: Wil Fuentes, Maestro Group
  - Moderator: Paulette Christopher, American Chemical Society
  - What You Will Learn:
    - How to prepare for an interview
    - How to conduct this interview remotely
    - How to follow up after the interview
  - www.acs.org/acswebinars

- **Chemistry of Fireworks: Thursday Rebroadcast**
  - Thursday, July 2, 2020 at 2:30pm ET
  - Speaker: Chris McCulla, U.S. Customs and Border Protection Laboratories
  - Moderator: Andrew Haymond, University of Michigan
  - What You Will Learn:
    - The basics of “props” principles in pyrotechnics
    - Chemical manipulation in pyrotechnics
    - Special effects: color generation and “smoke”
  - Register for Free!

- **Ignition, Sensitivity, and Analysis of Energetic Materials: Friday Rebroadcast**
  - Friday, July 3, 2020 at 2:30pm ET
  - Speaker: Chris Motorla, U.S. Customs and Border Protection Laboratories
  - Moderator: Dennis Fallick, University of Texas
  - What You Will Learn:
    - Principles of ignition and initiating pyrotechnics
    - Principles of ignition sensitivity and detonation testing techniques, such as heat, shock, burst, and impact
    --approved analytical techniques for pyrotechnics, such as spectroscopy, cut and grind, and chemisorption
  - Register for Free!
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• Webinars for professional development credit
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https://teachchemistry.org
The *Journal of Chemical Education* is the official journal of the Division of Chemical Education of the American Chemical Society, co-published with the American Chemical Society Publications Division. Launched in 1924, the *Journal of Chemical Education* is the world’s premier chemical education journal. JCE typically addresses chemical content, activities, laboratory experiments, instructional methods, and pedagogies. The Journal serves as a means of communication among instructors of chemistry from middle school through graduate school, professional staff who support these teaching activities, as well as some scientists in commerce, industry, and government.

https://pubs.acs.org/journal/jceda8

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- Build communication skills
- Connect concepts to current events
- Add historic context

https://connect.acspubs.org/getaccess
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Teaching Remotely Together: Lessons Learned

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Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

What courses do you currently teach?

- Elementary (K-5) science courses
- Secondary (6-12) science courses
- Advanced placement chemistry courses
- Post-secondary General/introductory chemistry courses
- Post-secondary in-depth chemistry courses

* If your answer differs greatly from the choices above tell us in the chat!
Teaching Remotely Together: Lessons Learned

Dawn Del Carlo  
Chair, ACS Division of Chemical Education

LaTrece Garrison  
Executive Vice President for Education, American Chemical Society

Thomas Holme  
Editor-in-Chief, Journal of Chemical Education

Heather Weck  
President, American Association of Chemistry Teachers

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What You Will Learn

• Ways remote education is advancing STEM education
• How the broader education community is working together
• Resources our community of educators found most effective for teaching chemistry online
Continuing Conversation

- May 27: #AskACSEditors Twitter Chat
- June 4: C&EN Table Talks
- June 15: ACS Webinar – The Future of the Chemistry Lab Course
- June 24: JCE Virtual issue: Laboratory Learning
- June 30: ACS Webinar – Teaching Remotely Together: Lessons Learned
- September 2020: JCE Special issue - Teaching in the time of COVID-19

Today’s Panelists

- Ways remote education is advancing STEM education
- How the broader education community is working together
- Resources our community of educators found most effective for teaching chemistry online
How do you feel your transition to remote teaching went?

- Epic disaster
- Not great, but ok given the circumstances
- Decent, I might have even done some things pretty well but there’s also room for improvement
- Pretty well overall, but there are a few things I need to tweak/figure out
- Fantastic because I was born ready!

* If your answer differs greatly from the choices above tell us in the chat!

The Journey through the Process and Stages

- Triage to remote instruction (Initial pivot → End of term)
- Continuing remote instruction (spring quarter, summer sessions, fall, beyond?)
- Resuming face-to-face instruction (with or without social distancing)

We are all in this together, regardless of which stage we may be in individually
What parts of your teaching did you learn the most about and plan to utilize moving forward? (Select all that apply)

- Technological (tools)
- Instructional (delivery and assessment)
- Pedagogical (format/design)
- Philosophical (principles)
- Professional (community)

* If your answer differs greatly from the choices above tell us in the chat!

Is remote education advancing STEM Education?

- Ways remote education is advancing STEM education
- How the broader education community is working together
- Resources our community of educators found most effective for teaching chemistry online
What support structures and/or communities did you utilize in your transition and during remote instruction? (Select all that apply)

- Network of colleagues at campuses/districts
- Existing communities (AACT, VIPer/IONiC, OrganicERs)
- Literature
- Organizations (associations, societies)
- Vendors (publishers, lab, technology platforms)

* If your answer differs greatly from the choices above tell us in the chat!

How Broader Education Community Works Together

- Ways remote education is advancing STEM education
- How the broader education community is working together
- Resources our community of educators found most effective for teaching chemistry online
What resources did you personally find to be most helpful in teaching chemistry remotely? (Select all that apply)

- Technical support (tools)
- Instructional materials (delivery and assessment)
- Pedagogical approaches (format/design)
- Philosophical (principles)
- Professional and emotional support (community)

* If your answer differs greatly from the choices above tell us in the chat!

Most Effective in Teaching Chemistry Online

- Ways remote education is advancing STEM education
- How the broader education community is working together
- Resources our community of educators found most effective for teaching chemistry online
Final Thoughts

- Ways remote education is advancing STEM education
- How the broader education community is working together
- Resources our community of educators found most effective for teaching chemistry online

ACS Resources and Much More...

The chemistry community has a wide range of resources to assist with teaching remotely in various and changing circumstances, some of which are compiled at the link below. To facilitate use of this list, resources are organized into the six categories considered during the webinar.

1. Overall
2. Professional (community)
3. Philosophical (principles)
4. Pedagogical (format / design)
5. Instructional (delivery and assessment)
6. Technological (tools)

Teaching Remotely Together Resource List

http://www.acs.org/content/dam/acsorg/events/popular-chemistry/Slides/2020-06-30-remote-teaching-resources.pdf
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**INTerviewing in a COVID World**

*Wednesday, July 1, 2020 at 2:00 pm ET*

Speaker: H. L. Tuan Tran, Hanoi Group Moderator: Paul Christopher, American Chemical Society

**Chemistry of Fireworks**

*Thursday, July 2, 2020 at 2:00 pm ET*

Speaker: Chris Motske, U.S. Customs and Border Protection Laboratories Moderator: Andrew Maynard, University of Michigan

**Ignition, Sensitivity, and Analysis of Energetic Materials**

*Friday, July 3, 2020 at 1:00 pm ET*

Speaker: Chris Motske, U.S. Customs and Border Protection Laboratories Moderator: Dennis Griffin, University of Texas

Register for Free!

What You Will Learn:

- How to prepare for an interview
- How to conduct the interview remotely
- How to follow up after the interview

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Wednesday, July 1, 2020 at 2:00 PM ET

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Moderator: Pauls Christopher, American Chemical Society

When You Will Learn

- How to prepare for an interview
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- How to follow up after the interview

Co-produced with ACS Diversity Programs and the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

**Chemistry of Fireworks**

Thursday, July 2, 2020 at 2:00 PM ET

Speaker: Chris Mutha, U.S. Customs and Border Protection Laboratories
Moderator: Andrew Maynard, University of Michigan

What You Will Learn

- The basic chemistry behind fireworks
- Chemical properties of fireworks
- Safety and public relations

**Ignition, Sensitivity, and Analysis of Energetic Materials**

Friday, July 3, 2020 at 2:00 PM ET

Speaker: Chris Mutha, U.S. Customs and Border Protection Laboratories
Moderator: Dennis Griffin, University of Texas

What You Will Learn

- Principles of ignition and initiating energetic compositions
- Principles of sensitivity and detonation testing techniques, such as heat, shock, friction, and impact
- Current analytical techniques for energetic compositions, such as spectroscopy, X-ray diffraction, and thermogravimetry

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