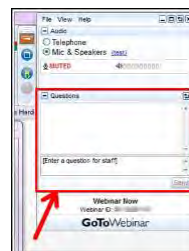


Have Questions?



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.

Contact ACS Webinars® at acswebinars@acs.org

1



@AmericanChemicalSociety



@AmerChemSociety



@AmerChemSociety



<https://www.linkedin.com/company/american-chemical-society>

Contact ACS Webinars® at acswebinars@acs.org

2

Check out the Archive!

An ACS member exclusive benefit



Hundreds of presentations from the best and brightest minds that chemistry has to offer are available to you on-demand. The Archive is divided into 6 different sections to help you more easily find what you are searching.

Professional Development

▶ View the Collection

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.

Technology & Innovation

▶ View the Collection

From renewable fuels to creating the materials for the technology of tomorrow, chemistry plays a pivotal role in advancing our world. Meet the chemists that are building a better world and see how their science is making it happen.

Drug Design and Delivery

▶ View the Collection

The Drug Design Delivery Series has built a collection of the top minds in the field to explain the mechanics of drug discovery. Discover the latest research, receive an overview on different fields of study, and gain insight on how to possibly overcome your own med chem roadblocks.

Culinary Chemistry

▶ View the Collection

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.

Popular Chemistry

▶ View the Collection

Feeling burdened by all that molecular weight? Listen to experts expound on the amazing side of current hot science topics. Discover the chemistry of rockets, how viruses have affected human history, or the molecular breakdown of a hangover.

Business & Entrepreneurship

▶ View the Collection

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.

<https://www.acs.org/content/acs/en/acs-webinars/videos.html>

3



ACS Webinars®

CLICK • WATCH • LEARN • DISCUSS



Learn from the best and brightest minds in chemistry! Hundreds of webinars on diverse topics presented by experts in the chemical sciences and enterprise.

Edited Recordings are an exclusive ACS member benefit and are made available to registrants via an email invitation once the recording has been edited and posted.

Live Broadcasts of ACS Webinars® continue to be available to the general public on Tuesdays, Wednesdays, and Thursdays from 2-3pm ET!

A **collection of the best recordings** from the ACS Webinars Archive will be broadcast on Mondays and Fridays from 2-3pm ET!

www.acs.org/acswebinars

4

What is ACS on Campus?



ACS visits campuses across the world offering FREE seminars on how to be published, find a job, network and use essential tools like SciFinder. ACS on Campus presents seminars and workshops focused on how to:



- Publish in top journals
- Find a job
- Effectively use research tools like SciFinder® and ACS ChemWorx
- Communicate your science
- Write grant proposals
- Build industry partnerships
- Prepare for a changing employment landscape

<http://acsoncampus.acs.org>

5

2020 GC&E Virtual Conference



JOIN US AT THE
24th Annual Green Chemistry & Engineering Conference
Systems-Inspired Design

JUNE 15-19, 2020
VIRTUAL CONFERENCE

REGISTER FOR FREE!

On June 15-19, from 11am-5:30pm EDT attendees will view and engage with:

- Daily keynote speakers
- 40+ technical sessions
- 80+ posters
- Networking breaks and #gcande happy hour
- Green Expo
- GC&E Fridays: Live technical sessions on Fridays leading up to the conference week

<https://www.gcande.org/register>

6

Advance YOUR CAREER


ChemIDP™



ChemIDP.org

Discover ACS PUBLICATIONS

Publishing Resources



publish.acs.org

Connect WITH CHEMISTS AND OTHER SCIENCE PROFESSIONALS

CAS SciFinder Future Leaders



171 alumni, 35 countries
and over 120 institutions

acsoncampus.acs.org/resources



From ACS Industry Member Programs

◆ Industry Matters Newsletter

Exclusive interviews with industry leaders and insights to advance your career

Preview & Subscribe: acs.org/indnews



Connect, collaborate, and stay informed about the trends leading chemical innovation

Join: bit.ly/ACSinnovationhub

Free ACS Webinars Every Weekday!

Upcoming Broadcasts



Friday, June 5, 2020 at 2-3pm ET
Speaker: Paul Hodges, International Echem
Moderator: Bill Carroll, Carroll Applied Science

Register for Free!

What You Will Learn

- How developing patterns of consumption, deflation, changes in behavior will affect the market
- Applying Elisabeth Kübler Ross Paradigm of Loss model in relation to the COVID-19 pandemic and ensuing economic crisis
- Six key questions to determine if your company will survive and prosper

Co-produced with: ACS Industry Member Programs



Wednesday, June 10, 2020 at 2-3pm ET
Speakers: Marcy Towns, Purdue University / Justin Carmel, Florida International University / Edgar Arriaga, University of Minnesota
Moderator: Celia Arnaud, CSFN

Register for Free!

What You Will Learn

- Essential skills and knowledge that students develop in (and only in) laboratory courses
- Strategies for building laboratory curricula that develop essential knowledge and skills
- Approaches for determining what students are gaining from laboratory experiences

Co-produced with: ACS Education and Chemical & Engineering News



Thursday, June 11, 2020 at 2-3pm ET
Speakers: John Wasyluk, Bristol-Myers Squibb / Bob Weshman, Bristol-Myers Squibb
Moderator: Joseph Fortunak, Howard University

Register for Free!

What You Will Learn

- Why off-line and in-line spectroscopy techniques decrease exposure and generation of hazardous waste
- How to shorten analysis time and enhance productivity
- How in-line analysis techniques greatly increase process knowledge

Co-produced with: ACS Green Chemistry Institute

www.acs.org/acswebinars

9

ACS Efforts and Resources on COVID-19



Browse **ACS Resources and Initiatives!**

- **YOU MAY RECEIVE A ONE-YEAR WAIVER ON YOUR NATIONAL DUES** If your membership is up for renewal, but you're experiencing a special hardship, such as unemployment, furlough, reduced wages or illness.
- **RECEIVE ACCESS TO LINKEDIN LEARNING THROUGH THE END OF THIS YEAR** This powerful resource includes over 15,000 on-demand courses to support your continued learning and career advancement for active ACS members.
- **INOVA EAP/WORK-LIFE ASSISTANCE PROGRAM** 24/7 assistance on a wide range of issues, such as emotional, relationship, major life, health, wellness, educational and more for ACS members based in the United States. Confidential services are provided via telephone or comprehensive online resources.

www.acs.org/covid-19

10

understanding Your Needs

Restarting Academic Research with COVID-19

Co-produced with ACS External Affairs and Communications



ACS
Chemistry for Life®

THIS ACS WEBINAR WILL BEGIN SHORTLY...

11



Understanding Your Needs: Restarting Academic Research with COVID-19

Please continue to share your challenges during the COVID shutdowns as well as your thoughts on how federal research agencies like NSF, NIH, and DOE could assist scientists to policy@acs.org.



Luis Echegoyen
ACS President and Robert A. Welch Professor
of Chemistry, University of Texas-El Paso



Peter Dorhout
Past ACS President and Vice President for
Research, Kansas State University



Davita Camp
Assistant Professor,
Spelman College

Presentation slides are available now! Edited recordings are an exclusive ACS member benefit.

www.acs.org/acswebinars

This ACS Webinar is moderated by Will Hartwig of the American Chemical Society and co-produced with the ACS External Affairs and Communications.

12

Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



How long do you expect it will be before you can return to lab?

- Already open
- Another month
- More than a month
- More than three months
- More than six months



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



Understanding Your Needs: Restarting Academic Research with COVID-19

Please continue to share your challenges during the COVID shutdowns as well as your thoughts on how federal research agencies like NSF, NIH, and DOE could assist scientists to policy@acs.org.



Luis Echegoyen
ACS President and Robert A. Welch Professor
of Chemistry, University of Texas-El Paso



Peter Dorhout
Past ACS President and Vice President for
Research, Kansas State University



Davita Camp
Assistant Professor,
Spelman College

Presentation slides are available now! Edited recordings are an exclusive ACS member benefit.

www.acs.org/acswebinars

This ACS Webinar is moderated by Will Hartwig of the American Chemical Society and co-produced with the ACS External Affairs and Communications.

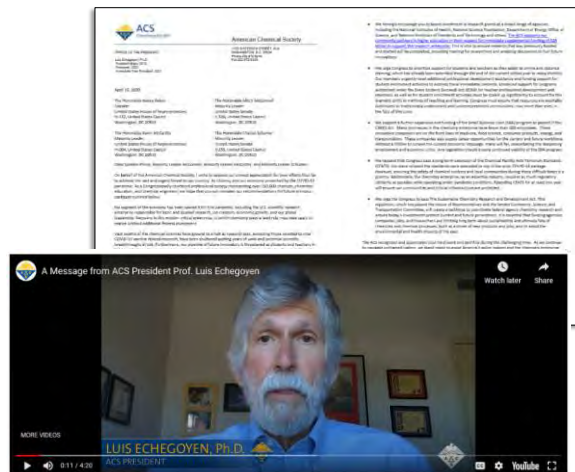
ACS Letter & Video Message to Congress



ACS policy priorities for Congressional COVID-19 Response:

- Make executive branch COVID-19 grant guidance permanent
- Research Enterprise Support
- K-12 STEM Education Support
- Small Business Administration Support
- Chemical Facility anti-Terrorism Standards (CFATS) Extension
- Sustainable Chemistry

Read more at www.acs.org/policy



More ACS Advocacy for COVID Recovery



- **ACS endorses \$26 billion in supplemental funding for researchers**
 - Effort led by Reps. Diane DeGette (D-CO) & Fred Upton (R-MI); Senator Ed Markey (D-MA)
 - Nearly 200 signatures of support in the House; 33 signatures in the Senate
- **ACS supports rural STEM education infrastructure funding**
 - Effort led by Rep. TJ Cox (D-CA); Senators Brian Schatz (D-HI) and Marsha Blackburn (R-TN)

To find out more about ACS advocacy work follow

[@act4chemistry](https://twitter.com/act4chemistry) on twitter or visit www.acs.org/policy





U.S. Guidance and Resources on COVID-19



- <https://www.energy.gov/covid-19-hub>
- https://www.nsf.gov/news/special_reports/coronavirus/
- <https://www.nih.gov/health-information/coronavirus>
- <https://www.nist.gov/coronavirus>
- <https://www.cogr.edu/institutional-resources-ramping-and-reopening>



ACS Member Benefits during COVID-19



- If your membership is up for renewal, but you're experiencing a special hardship, such as unemployment, furlough, reduced wages or illness, you **may receive a one-year waiver** on your national dues.
- All active members of the Society may receive access to **LinkedIn Learning** through the end of this year. This powerful resource includes **over 15,000 on-demand courses** to support your continued learning and career advancement.
- ACS members based in the United States may use the **Inova EAP/Work-Life assistance program**, offering 24/7 assistance on a wide range of issues, such as emotional, relationship, major life, health, wellness, educational and more. Confidential services are provided via telephone or comprehensive online resources.

Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Who have you received guidance from on reopening your lab?

(Select all that apply)

- Your institution
- Funding agencies
- Public health officials
- No one
- Other (Tell us more in the chat)



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



Restarting Research In a Post-Pandemic World

- Consulted other VPRs in dialog
- Engaged in a campus conversation
- Involved stakeholders
- Defined key principles for restart
- Regular updates to campus



COVID-19 Information for Researchers

Our philosophy as researchers is that while we all are anxious to get back in full operation, we value all our faculty, staff, and students who are part of our research activities and must ensure that their health and safety remain our paramount concern.

Since our research labs, sites, studios, and facilities have now been shut down for six to eight weeks, we need to conduct a careful and thoughtful reawakening process in order to resume operations while being mindful of health and safety guidelines and compliant with State and University reopening plans.

<https://www.k-state.edu/research>



<https://www.k-state.edu/covid-19/reopening/operational-area-plans/research.html>

Current Status

Reopening Phase 2: Effective May 22



Safer at home

Phase 1

Phase 2

Phase 3

Phase out



Refer to EH&S Guidance



www.CSHEMA.org/covid-19

Restart Checklist

[https://www.cshema.org/docs/librariesprovider2/default-document-library/cshema-checklist-for-restarting-laboratories-on-college-and-university-campuses-\(1\).pdf](https://www.cshema.org/docs/librariesprovider2/default-document-library/cshema-checklist-for-restarting-laboratories-on-college-and-university-campuses-(1).pdf)



<https://absa.org/covid19toolbox>

Use this as an opportunity to review your safe operating procedures and consult with EH&S and public health experts. Let science be your guide.

Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



What worries you MOST about returning to lab?

- Maintaining social distancing
- Restarting equipment/assessing damages as a result of disuse
- Adapting safety protocols (ex. lab appropriate facemasks)
- Instrument access
- Losing funding for delayed research



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



Research at Spelman College

- Historically Black Women's College
- Global leader in educating women of African descent
- Nation's leader of Black women who complete PhDs in STEM
- Robust research agenda
- International research programs



And then disease begins to spread, COVID-19, lab shutdowns...



Lab Shutdowns Biggest Challenges / Concerns

- Lost time
- Student training
- Securing funding with no preliminary data
- Lack of time due to a teaching overload
- Institutional budget deficits





What resources can funding agencies provide?

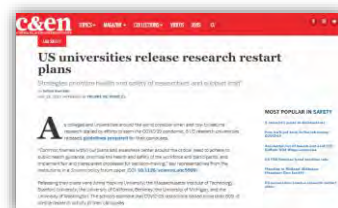
- Extend Early Stage Investigator status
- Require less preliminary data for grants submitted this year and next year
- New guidelines for grant committees/reviewers
- Provide smaller grants for ESIs to bridge the gap between startup funding and preliminary data
- Funding/stimulus for grant recipients
- Adjustments for educational component/outreach aspect of some awards
- Provide budget flexibility for grant recipients
- Short-term teaching-postdoc funding opportunities



Additional Resources



- Flexibilities Available to Applicants and Recipients of Federal Financial Assistance Affected by COVID-19 <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-086.html>
- General Frequently Asked Questions (FAQs) - *Proposal Submission and Award Management Related to COVID-19* <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-083.html>
- National Science Foundation - *Coronavirus information* https://www.nsf.gov/news/special_reports/coronavirus/
- Department of Energy <https://science.osti.gov/grants/FOAs/Open>
- Institutional and Agency Responses to COVID-19 and Additional Resources <https://www.cogr.edu/institutional-and-agency-responses-covid-19-and-additional-resources>
- Research restart plans <https://cen.acs.org/safety/lab-safety/US-universities-release-research-restart/98/i21>



Audience Challenge Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Who have you spoken with about research challenges?

- Colleagues
- Department Representatives
- University Representatives
- Your program manager at a funding agency
- No one



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

Free ACS Webinars Every Weekday!

Upcoming Broadcasts



Friday, June 5, 2020 at 2-3pm ET
 Speaker: Paul Hodges, International Echem
 Moderator: Bill Carroll, Carroll Applied Science

Register for Free!

What You Will Learn

- How developing patterns of consumption, deflation, changes in behavior will affect the market
- Applying Elisabeth Kübler-Ross' Paradigm of Loss model in relation to the COVID-19 pandemic and ensuing economic crisis
- Six key questions to determine if your company will survive and prosper

Co-produced with: ACS Industry Member Programs



Wednesday, June 10, 2020 at 2-3pm ET
 Speakers: Nancy Towns, Purdue University / Justin Carmel, Florida International University / Edgar Arriaga, University of Minnesota
 Moderator: Celia Arnaud, CSFN

Register for Free!

What You Will Learn

- Essential skills and knowledge that students develop in (and only in) laboratory courses
- Strategies for building laboratory curricula that develop essential knowledge and skills
- Approaches for determining what students are gaining from laboratory experiences

Co-produced with: ACS Education and Chemical & Engineering News



Thursday, June 11, 2020 at 2-3pm ET
 Speakers: John Wasyluk, Bristol-Myers Squibb / Bob Weshman, Bristol-Myers Squibb
 Moderator: Joseph Fortunak, Howard University

Register for Free!

What You Will Learn

- Why off-line and in-line spectroscopy techniques decrease exposure and generation of hazardous waste
- How to shorten analysis time and enhance productivity
- How in-line analysis techniques greatly increase process knowledge

Co-produced with: ACS Green Chemistry Institute

www.acs.org/acswebinars

ACS Efforts and Resources on COVID-19



Browse **ACS Resources** and **Initiatives!**

- **YOU MAY RECEIVE A ONE-YEAR WAIVER ON YOUR NATIONAL DUES** If your membership is up for renewal, but you're experiencing a special hardship, such as unemployment, furlough, reduced wages or illness.
- **RECEIVE ACCESS TO LINKEDIN LEARNING THROUGH THE END OF THIS YEAR** This powerful resource includes over 15,000 on-demand courses to support your continued learning and career advancement for active ACS members.
- **INOVA EAP/WORK-LIFE ASSISTANCE PROGRAM** 24/7 assistance on a wide range of issues, such as emotional, relationship, major life, health, wellness, educational and more for ACS members based in the United States. Confidential services are provided via telephone or comprehensive online resources.

www.acs.org/covid-19

29



Understanding Your Needs: Restarting Academic Research with COVID-19

Please continue to share your challenges during the COVID shutdowns as well as your thoughts on how federal research agencies like NSF, NIH, and DOE could assist scientists to policy@acs.org.



Luis Echegoyen
ACS President and Robert A. Welch Professor
of Chemistry, University of Texas-El Paso



Peter Dorhout
Past ACS President and Vice President for
Research, Kansas State University



Davita Camp
Assistant Professor,
Spelman College

Presentation slides are available now! Edited recordings are an exclusive ACS member benefit.

www.acs.org/acswebinars

This ACS Webinar is moderated by Will Hartwig of the American Chemical Society and co-produced with the ACS External Affairs and Communications.

30



ACS Webinars®

CLICK • WATCH • LEARN • DISCUSS



Learn from the best and brightest minds in chemistry! Hundreds of webinars on diverse topics presented by experts in the chemical sciences and enterprise.

Edited Recordings are an exclusive ACS member benefit and are made available to registrants via an email invitation once the recording has been edited and posted.

Live Broadcasts of ACS Webinars® continue to be available to the general public on Tuesdays, Wednesdays, and Thursdays from 2-3pm ET!

A **collection of the best recordings** from the ACS Webinars Archive will be broadcast on Mondays and Fridays from 2-3pm ET!

www.acs.org/acswwebinars

31



ACS Webinars®

CLICK • WATCH • LEARN • DISCUSS



ACS

Chemistry for Life®

ACS Webinars® does not endorse any products or services. The views expressed in this presentation are those of the presenter and do not necessarily reflect the views or policies of the American Chemical Society.



Mike Russell Erik

Contact ACS Webinars® at acswwebinars@acs.org

32

Free ACS Webinars Every Weekday!

Upcoming Broadcasts



Friday, June 5, 2020 at 2-3pm ET
Speaker: Paul Hodges, International Echem
Moderator: Bill Carroll, Carroll Applied Science

[Register for Free!](#)

What You Will Learn

- How developing patterns of consumption, deflation, changes in behavior will affect the market
- Applying Elisabeth Kübler Ross' Paradigm of Loss model in relation to the COVID-19 pandemic and ensuing economic crisis
- Six key questions to determine if your company will survive and prosper

Co-produced with: ACS Industry Member Programs



Wednesday, June 10, 2020 at 2-3pm ET
Speakers: Marcy Towns, Purdue University / Justin Carmel, Florida International University / Edger Arriaga, University of Minnesota
Moderator: Celia Arnaud, C&EN

[Register for Free!](#)

What You Will Learn

- Essential skills and knowledge that students develop in (and only in) laboratory courses
- Strategies for building laboratory curricula that develop essential knowledge and skills
- Approaches for determining what students are gaining from laboratory experiences

Co-produced with: ACS Education and Chemical & Engineering News



Thursday, June 11, 2020 at 2-3pm ET
Speakers: John Wasyluk, Bristol-Myers Squibb / Bob Weshman, Bristol-Myers Squibb
Moderator: Joseph Fortunak, Howard University

[Register for Free!](#)

What You Will Learn

- Why off-line and in-line spectroscopy techniques decrease exposure and generation of hazardous waste
- How to shorten analysis time and enhance productivity
- How in-line analysis techniques greatly increase process knowledge

Co-produced with: ACS Green Chemistry Institute

www.acs.org/acswebinars

33