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.
Check out the ACS Webinar Library!

*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 Library is divided into 6 different sections to help you more easily find what you are searching.

<table>
<thead>
<tr>
<th>Professional Development</th>
<th>Technology &amp; Innovation</th>
<th>Drug Design and Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
<td>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 medi chem roadblocks.</td>
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<table>
<thead>
<tr>
<th>Culinary Chemistry</th>
<th>Popular Chemistry</th>
<th>Business &amp; Entrepreneurship</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
<td>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.</td>
</tr>
</tbody>
</table>

[https://www.acs.org/content/acs/en/acs-webinars/videos.html](https://www.acs.org/content/acs/en/acs-webinars/videos.html)

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From ACS Industry Member Programs

- **Industry Matters Newsletter**
  ACS Member-only weekly newsletter with exclusive interviews with industry leaders and insights to advance your career.
  Preview & Subscribe: [acs.org/indnews](http://acs.org/indnews)

- **ACS Innovation Hub**
  Connect, collaborate, and stay informed about the trends leading chemical innovation
ACS Career Navigator: Your Home for Career Services

Whether you are just starting your journey, transitioning jobs, or looking to brush up or learn new skills, the ACS Career Navigator has the resources to point you in the right direction.

We have a collection of career resources to support you during this global pandemic:

- 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](http://www.ACS.org/COVID19-Network) to learn more!

Join us in our efforts to increase the diversity of chemistry.

Valued donors like you have sustained ACS educational programs that are welcoming students from diverse backgrounds into our profession.

[www.acs.org/donate](http://www.acs.org/donate)
A Career Planning Tool For Chemical Scientists

ChemIDP is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. ChemIDP tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

https://chemidp.acs.org

ACS Bridge Program

Are you thinking of Grad School?

If you are from an underrepresented racial or ethnic group, we want to empower you to get your graduate degree!

The ACS Bridge Program offers:

- A FREE common application that will highlight your achievements to participating Bridge Departments
- Resources to help write competitive grad school applications and connect you with mentors, students, and industry partners!

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ACS Department of Diversity Programs
Advancing ACS’s Core Value of Diversity, Inclusion & Respect

We believe in the strength of diversity in all its forms, because inclusion of and respect for diverse people, experiences, and ideas lead to superior solutions to world challenges and advances chemistry as a global, multidisciplinary science.

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ACS Diversity acsvoices.podbean.com/

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ACS Webinars

Designing Bio-Sourced Polymers that Enable Recycling
Date: Thursday, July 1, 2021 @ 2-3pm ET
Speaker: Stefan Mecking, University of Konstanz
Moderator: Mark Jones, Dow Chemical (retired)
What You Will Learn:
- What is solvolytic and how it can enable plastics recycling
- How renewable polyesters and polyamides with a low density of chain functional groups as maleic anhydride in a polyethylene chain can be recycled chemically
- How long chain building blocks for polycarbonate can be created from common plant oils/vegetable oils
Co-produced with: ACS Division of Polymer Chemistry

Succeeding in a Global Environment Successfully Working Across Cultures
Date: Wednesday, July 7, 2021 @ 2-3pm ET
Speaker: Rami Subramanian, Dow Inc USA
Moderator: Tom Hallman, American Chemical Society
What You Will Learn:
- Why there are many aspects to culture and what are some of the many similarities & differences across those aspects
- Why your ability to work effectively across cultures is an important contributor to success
- How your overall career is a marathon, but the environment can change rapidly, requiring you to constantly observe and adapt to the culture around you
Co-produced with: ACS Careers

Working Together to Design Safer Laboratories
Date: Thursday, July 8, 2021 @ 2-3pm ET
Speakers: Michael R. Lola, Massachusetts Institute of Technology / Ellen Swart, Cornell University / Melissa Fox, North Carolina State University
Moderator: Ralph Stuart, Keene State College
What You Will Learn:
- How to use the lab ventilation system to work more safely
- Who is involved in designing safe laboratory spaces and the practical considerations involved in this work
- How lab buildings were built in the past and why it is important for researchers to be engaged in the design process
Co-produced with: ACS Division of Chemical Health and Safety and the ACS Committee on Chemical Safety

www.acs.org/acswebinars
This ACS Webinar is co-produced with ACS Government Affairs.

Chemistry on Capitol Hill: 2021 Emerging Policies

FREE Webinar | TODAY at 2pm ET

THIS ACS WEBINAR WILL BEGIN SHORTLY...
ACS Government Affairs

Lauren Posey
June 30, 2021

ACS Government Affairs in the U.S. Government

LEGISLATIVE makes laws
Congress
Senate
House of Representatives

EXECUTIVE carries out laws
President
Vice president
Cabinet

JUDICIAL evaluates laws
U.S. Supreme Court
Other federal courts
ACS Government Affairs Team

- **Public Policy**
  - Manages ACS Policy Statement development

- **Federal Affairs**
  - Engages with federal agencies

- **Advocacy**
  - Direct lobbying on ACS issues

- **Member Engagement**
  - Act4Chemistry network

Under the ACS Office of the Secretary & General Counsel

ACS Policy Statement Categories

- Foster Innovation through Research & Technology
- Strengthen Science Education & Scientific Workforce
- Advance Science through Openness
- Promote Science and Sustainability in Public Policy

[www.acs.org/policy](http://www.acs.org/policy)
Specific Successes

ACS Advocacy Highlights:
• Sustainability

ACS Defensive Advocacy:
• Tax legislation

www.acs.org/advocacy

Audience Survey Question

Prior to this webinar, how aware were you of ACS’ Government Affairs activities?

• Very aware, I keep up with all of their activity
• Somewhat aware, I occasionally hear about their activity
• Minimally aware, I think I’ve heard of them before
• Not at all aware, this is the first I’m learning about them
Executive Branch Appointments

Administrations have ~4000 political appointments to make

- Approximately 1200 posts require Senate confirmation

- 81 positions have been confirmed

- 160 are being considered
Executive Branch Appointments

• Confirmed Appointments of Interest to ACS
  – Director of the Office of Science & Technology Policy (OSTP) – Eric Lander
  – Administrator of the Environmental Protection Agency (EPA) – Michael J. Regan
  – Secretary of Energy – Jennifer Granholm
  – Co-Chairs of the President’s Council of Advisors on Science & Technology (PCAST) – Francis Arnold and Maria Zuber

Positions Awaiting Action

• Awaiting Confirmation
  – DOE - Geraldine Richmond, Undersecretary for Science
  – DOE - Asmeret Berhe, Office of Science Director
  – U.S. Chemical Safety and Hazards Investigation Board (CSB) 3 nominees: Sylvia Johnson, Steve Owens, Jennifer Sass

• Outstanding Vacancies
  – 5th / Final CSB Board Member
  – NIST Director (Undersecretary of Commerce for Standards and Technology)
The Biden Administration Priorities

**Build Back Better**
- Invest in America
- Address inequity through workforce development
- Combat the Climate Crisis
- “Listen to Science” to combat the COVID-19 Pandemic

**ACS 2021 Advocacy Agenda**
- Ensure Robust Scientific Funding
- Support a Diverse STEM Education and Workforce Pipeline
- Promote Sustainability across Global Chemistry Enterprise and Environment
- Ensure Integrity in Policy and Regulatory Decision Making

President’s Budget Request

“Don't tell me what you value, show me your budget, and I'll tell you what you value.”

- U.S. President Joe Biden

- The Fiscal Year 2022 PBR is the first step of the Budget process and was released on June 2, 2021

- It sets the Administration’s priorities for the coming year, but Congress actually sets the budget, which may (or may not) follow the PBR
## Fiscal Year 2022
President’s Budget Request

<table>
<thead>
<tr>
<th>Program/Agency</th>
<th>FY2021 (millions)</th>
<th>FY2022 Request (millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOE Office of Science</td>
<td>$7,026</td>
<td>$7,440</td>
</tr>
<tr>
<td>NIST</td>
<td>$1,034</td>
<td>$1,497</td>
</tr>
<tr>
<td>NSF Research and Related Activity</td>
<td>$6,909</td>
<td>$8,139</td>
</tr>
<tr>
<td>ARPA-E</td>
<td>$427</td>
<td>$500</td>
</tr>
<tr>
<td>ARPA-C</td>
<td>- (newly established)</td>
<td>$200</td>
</tr>
<tr>
<td>NIH</td>
<td>$42,934</td>
<td>$51,953</td>
</tr>
</tbody>
</table>

### Relevant Administration Priorities

- COVID-Relief
- Climate Change
- Diversity & Racial Equity
- S&T Innovation & Competitiveness
- Sustainability
- Infrastructure

*Photo: Adam Schultz/White House/Zuma Wire*
Legislative Branch Update

Carl Maxwell
June 30, 2021

117th Congress: ACS Advocacy Agenda

• Ensure Robust Scientific Funding

• Support a Diverse STEM Education and Workforce Pipeline

• Promote Sustainability across Global Chemistry Enterprise and Environment

• Ensure Integrity of Science in Policy and Regulatory Decision Making
Current U.S. Congress

Senate Procedures 101: Why You Should Care

- **Filibuster**
  - Previous question
  - Cloture = 3/5 = 60 votes to end debate

- **Reconciliation**
  - Budget Act of 1974
  - Automatically limits debate to 20 hours
  - Spending or revenue “impact”
  - 51 votes (or 50+VP in case of a 50-50 tie)
The Budget Process: Authorization vs. Appropriation

- Authorization = permission to buy something
- Appropriation = writing the check

Relevant Congressional Activity

- Fiscal Year 2022 budget
- Innovation bills
- Infrastructure
- Sustainability
- STEM Education
- Nominations assembly line
Innovation Authorization Legislation

**House**
- **NSF for the Future Act**
  - Increases funding by $2 Billion in 2022
  - Grows NSF at 6% annual rate
  - Establishes Technology Directorate
- **DOE Science for the Future Act**
  - Increases DOE Science from $7 Billion to $11 Billion over 5 years
  - Guidance for Facilities & Research
  - Helium Conservation
- **Sustainable Chemistry**
- **ACS Endorsed**

**Senate**
- **U.S. Innovation and Competitiveness Act**
  - $81 Billion over 5 years for NSF w/ new Tech Directorate
  - $50 Billion for Domestic Semiconductor development
  - $10 Billion for NIST technology hubs
  - Research Security
  - Visa Limitations

Infrastructure, and What Is It?

- Highways
- Public transit
- Water/wastewater
- Pedestrian
- Ports and terminals
- Broadband
- Electric grid
- Government buildings
- Senior home care
Sustainability and Climate Change

- Acceptance of climate change science (mostly)
- Taxing carbon vs. regulating carbon
- Renewable energy standards
- Plastic waste
  - Research
  - Regulation
  - Waste collection
- Green and sustainable chemistry

STEM Education

- Combating Sexual Harassment in Science Act
- The STEM Opportunities Act
- The MSI STEM Achievement Act
- Rural STEM Education Research Act
- Supporting Early-Career Researchers Act

House
All 5 bills passed on May 18

Senate
Rural STEM, MSI STEM, Early-Career Researchers Acts included in Senate Innovation Package in June

Final Passage?

Which topic do you think is MOST important for ACS to advocate for?

- Sustainability
- STEM Education
- Research funding
- Climate change
- They are all important – I can’t choose just one!
ACS Needs YOU

• Constituents and scientific experts have the **power** to sway policy

• We dedicate time and resources to:
  – Encourage members to engage
  – Inform members of relevant policies and legislation
  – Make it easy for members to engage

  [www.acs.org/advocacy](http://www.acs.org/advocacy)

Act4Chemistry Resources

• Find your legislator tool

• Action alerts on relevant legislation

• Letter templates for advocacy via: calling, town halls, scheduling meetings

• And much more!
ACS Chemistry Advocacy Workshop

ACS’ free, online, on-demand course provides ~2 h of training in skills, resources, logistics, and communication for federal-level chemistry advocacy.

www.acs.org/chemistryadvocacy

Act4Chemistry Legislative Action Network

• Join 10,000+ members

• An easy way to advocate for chemistry and takes only minutes to join and act!

www.acs.org/act4chemistry
ACS Public Policy Fellowships

Science Policy Fellow
• Works in-house with ACS Government Affairs team

Congressional Fellows
• 2 Fellows embedded in Congressional offices
• Administered by AAAS S&T Fellowship Program

Applications open November 15 - January 15

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