Questions or Comments?

Type them into the questions box!

"Why am I muted?"

Don't worry. Everyone is muted except the Presenter and the Host. Thank you and enjoy the show.

Chat

Announcements and hyperlinks from our team
Let’s Get Social!

Follow the American Chemical Society on Twitter, Facebook, Instagram, and LinkedIn for the latest news, events, and connect with your colleagues across the Society.

@AmerChemSociety @AmericanChemicalSociety @amerchemsociety linkedin.com/company/american-chemical-society

Contact ACS Webinars® at acswebinars@acs.org

Where is the Webinar Recording?

All Registrants

Watch the unedited recording linked in the Thank You Email for 24 hours.

ACS Members w/Premium Package

Visit the ACS Webinars® Library to watch the edited and captioned recording.
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

Career Consultant Directory

- ACS Member-exclusive program that allows you to arrange a one-on-one appointment with a certified ACS Career Consultant.
- Consultants provide personalized career advice to ACS Members.
- Browse our Career Consultant roster and request your one-on-one appointment today!

www.acs.org/careerconsulting
If you are a student from a group underrepresented in the chemical sciences, 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!

Learn more and apply at [www.acs.org/bridge](http://www.acs.org/bridge)

Email us at [bridge@acs.org](mailto:bridge@acs.org)
https://www.youtube.com/c/ACSReactions/videos
ACS Industry Member Programs

- **ACS Industry Matters**
  ACS member only content with exclusive insights from industry leaders to help you succeed in your career. #ACSIndustryMatters

  **Preview Content:** [acs.org/indnl](acs.org/indnl)

- **ACS Innovation Hub LinkedIn Group**
  Connect, collaborate and stay informed about the trends leading chemical innovation.

  **Join:** [bit.ly/ACSinnovationhub](bit.ly/ACSinnovationhub)
ACS OFFICE OF DEIR
Advancing ACS’ Core Value of Diversity, Equity, Inclusion and Respect

Resources

- Inclusivity Style Guide
  - Designed to help staff and volunteers use language and images that respect diversity in all forms.
- ACS Webinars on Diversity
  - Covering diversity and inclusion in the workplace.
- ACS Publications DEIR Hub
  - See what ACS publications is doing for fostering diversity in scholarly publishing.
- ACS Volunteer and ACS Meetings Code of Conduct
  - Fostering a positive and welcoming environment for attendees, volunteers and staff.
- C&EN Trailblazers
  - Each highlights scientists from different backgrounds who are making an impact in chemistry.
- NEW! Download DEIR Educational Resources
  - Download this educational guide for additional recommendations on videos, articles, books, podcasts, and more on diversity, inclusion, and related topics.
- Quick Guide: Inclusion Moments
  - Learn more about what inclusion moments are and how to host them during your meetings.
- Quick Guide: How to host Inclusive in-person events
  - Recommendations and best practices to ensure that your events can accommodate everyone.

Diversity, Equity, Inclusion, and Respect

- Diversity**
  - The representation of varied identities and differences (race, ethnicity, gender, disability, sexual orientation, gender identity, national origin, tribe, caste, socio-economic status, thinking and communication styles, etc.) collectively and as individuals. ACS seeks to proactively engage, understand, and draw on a variety of perspectives.
- Equity**
  - Seeks to ensure fair treatment, equality of opportunity, and fairness in access to information and resources for all. We believe this is only possible in an environment built on respect and dignity. Equity requires the identification and elimination of barriers that have prevented the full participation of some groups.
- Inclusion**
  - Builds a culture of belonging by actively inviting the contribution and participation of all people. Every person’s voice adds value, and ACS strives to create balance in the face of power differences. In addition, no one person or group should be called upon to represent an entire community.

Respect

- Ensures that each person is treated with professionalism, integrity, and ethics underpinning all interpersonal interactions.

https://www.acs.org/diversity

ACS Advocacy
See your influence in action!

The impact and results of ACS member advocacy outreach and efforts by the numbers!

- **2439+** Members participated in Act4Chemistry
- **1739+** ACS Advocacy Workshops participants or enrollees
- **49** Years of Public Policy Fellows
- **2000** Letters sent to Congress

Get Involved
Enroll in a workshop
Become a Fellow
Take Action

https://www.acs.org/policy
ACS on Campus is the American Chemical Society’s initiative dedicated to helping students advance their education and careers.

Get Results.
Discover how to prepare an effective resume, interview with confidence, pass a graduate or post-doctoral program, and more!

Get Published.
Share your science with confidence - get essential tips for becoming a better writer, reviewer and communicator.

Get Ahead.
Develop your career network with local professionals, and learn how to leverage your ACS membership.

acsoccupied.acs.org
THIS ACS WEBINAR® WILL BEGIN SHORTLY...

👋 Say hello in the questions window!

Download the Presentation Slides Under Handouts Section

Adapting to AI in Peer Review and the Publishing Process

OSVALDO N. OLIVEIRA JR., PHD
Executive Editor, ACS Applied Materials & Interfaces

Sonja Krane, PHD
Senior Associate Publisher, ACS Publications

This ACS Webinar® is co-produced with ACS on Campus.
Almost a decade ago I made the prediction that machines would soon be able to generate knowledge autonomously, without human intervention. That is to say, a machine should be able to perform intellectual tasks as sophisticated as those involved in an academic project. This prediction was based on the developments in natural language processing (NLP) which led to the IBM Watson computer.

I was then sure that once a machine could master natural language, it would be able to perform any intellectual task a human performs. With the launch of ChatGPT and similar tools based on LLMs, we may say that my prediction is being proven correct.

– Professor Osvaldo Novais de Oliveira
THE PUBLICATION LIFECYCLE
How much have you used various A.I. tools so far?

- No experience
- Tried them out for fun/personal use
- Tried them out for research/professional use
- Extensive experience with one or more tools

* If your answer is "Other" tell us more in the questions window!
How could AI impact the diversity and inclusion of authors and reviewers in academic publishing?

Can AI-powered education be made accessible to all students, including those with disabilities or those who do not have access to advanced technology?
How do publishers ensure the security and confidentiality of peer review data when using AI?

Audience Survey Question

Will A.I. have a positive or negative impact on scientific research?

- Negative impact
- Neither positive nor negative impact
- Positive impact
- Not sure

* If your answer is "Other" tell us more in the questions window!
Can AI predict the impact or importance of a research paper in a specific field? Estimate citations based on recently published papers in the field?

Do you see any implications for AI and the future of open access publishing and peer review?
How do researchers and publishers address concerns about the potential biases that AI algorithms may introduce into the peer review process? Could it also play a role in detecting and mitigating biases in scientific publishing and peer review?

Will A.I. have a positive or negative impact on scientific publishing?

- Negative impact
- Neither positive nor negative impact
- Positive impact
- Not sure

* If your answer is "Other" tell us more in the questions window!
Some AI models, especially deep learning ones, are often seen as "black boxes" and it can be challenging to understand how they arrive at their decisions. How can this be taken into account? What issues do you see arising from this “black box” challenge and how can it be addressed?

What possible measures could be put in place to protect data while using AI platforms? How might sensitive information be handled or stored?
How can we establish effective feedback mechanisms for improvement of AI systems in the peer review process?

ACS Reviewer Lab is a free, on-demand peer review training course, now available through the ACS Institute. Designed by ACS Editors, leading scientific researchers, and ACS Publications staff, this course provides real-life guidance on how to navigate tricky ethical situations, identify core criteria for evaluating manuscripts, and write a first-rate review.

https://institute.acs.org/courses/acs-reviewer-lab.html
THE LIVE Q&A IS ABOUT TO BEGIN!

Keep submitting your questions in the questions window!

ACS on Campus is the American Chemical Society’s initiative dedicated to helping students advance their education and careers.

Get Results.
Discover how to prepare an effective resume, interview with confidence, get a graduate or post-doctoral program, and more!

Get Published.
Share your science with confidence - get essential tips for becoming a better writer, reviewer, and communicator.

Get Ahead.
Develop your career, network with local professionals, and learn how to leverage your ACS membership.

acsoncampus.acs.org
Register for Free

Browse the Upcoming Schedule at www.acs.org/acswebinars

Edited Recordings
are an exclusive benefit for ACS Members with the Premium Package and can be accessed in the ACS Webinars® Library at www.acs.org/acswebinars

Live Broadcasts
of ACS Webinars® continue to be available free to the general public several times a week generally from 2-3pm ET. Visit www.acs.org/acswebinars to register* for upcoming webinars.

*Requires FREE ACS ID

Who Will Win the #ChemNobel?
Co-produced with Chemical & Engineering News

Meet the 2024 ACS President-Elect Candidates
Co-produced with the ACS Younger Chemists Committee

The "Ins and Outs" of Networking
Co-produced with ACS Division of Professional Relations and co-produced with ACS Industry Member Programs
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.

Contact ACS Webinars® at acswebinars@acs.org