AAAS-IUSE Virtual Workshop Presenter Criteria

The AAAS-IUSE workshops serve as a space to learn, meet, and collaborate with faculty, researchers, and professionals working to improve undergraduate STEM education. Furthermore, these workshops aim to encourage and empower participants to take action toward improving undergraduate STEM education. Virtual workshops are scheduled February, March, April, May, August, and September 2021. All workshops will take place online using a webinar/meetings platform and run 90 minutes in duration.

From the submitters who respond to the call for submissions, two speakers will be chosen by AAAS staff for each workshop and will give 20- to 25-minute presentations separately. Please note, AAAS-IUSE is requesting only one person per submission, as the presentations will be short and multiple presenters could be distracting. Following presentations, there will be Q&A/breakout room discussions. Speakers are expected to answer questions/lead breakout discussions following their presentations.

Topics

Below is a list of workshop topics with example presentations, including the opportunity to submit on a topic related to improving undergraduate STEM education beyond those listed. We are looking for speakers to present for 20-25 minutes and speak to institutional and community transformation or engaged student learning. While speakers should address one of the topics below, they should also focus their presentation on action steps that can be taken based off information presented.

1. **Promoting equity in undergraduate STEM education**

   For example, how to change institutional policies to promote diversity and equity in STEM education, how to recruit and retain typically underrepresented students in STEM, impacts of COVID-19 on creating more inclusive teaching practices (virtual/remote, rural areas, students with disabilities, students with limited access to technology), etc.

2. **Best practices for supporting undergraduate STEM students**

   For example, lessons learned following recent instruction changes to STEM education due to COVID-19, university department initiatives that focus on improving experiences for students in STEM, co-curricular supports for undergraduate STEM education – self-care, mental health, managing change/transition, dealing with social injustices, removing systemic barriers in STEM especially for URMs, etc.

3. **Interdisciplinary or cross-disciplinary undergraduate STEM education**

   For example, presenting on a successful interdisciplinary STEM course, best practices for preparing multidisciplinary, well-rounded STEM practitioners, incorporating concepts from data analytics and data science into other STEM courses, etc.

4. **Professional development opportunities for faculty teaching undergraduate STEM students**

   For example, a workshop on curriculum development, active learning pedagogy, best practices in teaching undergraduate STEM and non-STEM majors, etc.

5. **Institution/department policies that affect undergraduate STEM education**

   For example, discussing tenure or evaluation processes and how these impact STEM teaching and mentoring, looking at grading practices and how they affect student learning and retention in STEM programs, etc.

6. **Other topics relating to improving undergraduate STEM education**

   For example, sharing innovative practices in teaching undergraduate STEM courses for STEM or non-STEM majors, emerging STEM fields for students – data science, AI, bioinformatics, strategic collaborations and partnerships to advance STEM education (industry, non-profits, community orgs), advances in evaluation and assessment of STEM programs – new challenges/strategies may have emerged due to COVID-like issues, resilience/perseverance in STEM majors, how faculty can help facilitate student-led network improvement communities, etc.

Who can submit a request to speak?

- IUSE program PIs & Co-PIs
- Educators, researchers, evaluators, and representatives of academic institutions
- Representatives from non-profits, STEM centers, STEM discipline societies, funders, or government entities with a focus on undergraduate STEM education
- Experts in the field of undergraduate STEM education

Workshop evaluation considerations:

- Relevancy of topic for audience interested in improving undergraduate STEM education
- Relation to other submissions, to ensure complimentary presentations
- Representation from different IUSE grant focus areas: Engaged Student Learning or Institutional and Community Transformation
- Demographic representation, to ensure speakers are diverse, from various disciplines, from a variety of institution types, and from different areas of the country
- Development of thought-provoking arguments, analysis, and implications that invite an informed conversation
- Content advances and pushes the field beyond the status quo, introduces compelling evidence, clearly describes implications and practical steps readers can take, and does not shy away from uncomfortable conversation or stop short of audience empowerment

Please be prepared to submit the following:

1. Personal information such as name, affiliation, email address, discipline, and demographic information
2. Choose the topic that best aligns with your presentation focus
   - Best practices for supporting undergraduate STEM students
   - Institution/department policies that affect undergraduate STEM education
   - Interdisciplinary or cross-disciplinary undergraduate STEM education
   - Professional development opportunities for faculty teaching undergraduate STEM students
   - Promoting equity in undergraduate STEM education
   - Other topics relating to improving undergraduate STEM education
3. Title of your presentation
4. Up to 500 words describing your presentation, including discipline, topics and issues that will be addressed and how they relate to the overarching topic
5. Up to 250 words describing goals, expected outcomes, and key takeaways
6. Intended audience for presentation
7. Related past presentations (title of presentation, event where presentation was given)
8. Related work on topic
9. Resources or discussion questions to share with audience
10. Biography (up to 250-words or a link to your biography)
11. Headshot link or upload (Please note, if chosen to present, this image will be used in advertising and promotional materials)
12. Your speaking availability from a list of possible dates and times

Questions? Please contact the AAAS-IUSE team at iuse@aaas.org.

Deadline: Please follow the link below to submit your proposal by December 13, 2020 at 11:59 PM PT.

Submit Virtual Workshop Presentation Proposal