Dear ESIG Member:

Here is the latest and final issue of the Education Special Interest Group Newsletter. This is the end of the ESIG, but its just the beginning of AGU’s brand new Education section!

If you attended Fall Meeting last week, we hope you enjoyed our education sessions and reception. If you have already joined the new AGU Education section, we’re happy to have you. You are part of an incredibly interdisciplinary group of professionals, educators, and scientists committed to advancing geoscience education. If you are not yet affiliated with the Education section, we urge you to join when you renew your 2018 membership.

If you would like to advertise future events, articles, or other opportunities in the Education community, please contact us.

Best Regards,
Mark Moldwin
President, AGU Education Section

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**News**

1. **Experience Fall Meeting with AGU GO**

Missed Fall Meeting, or wish you were able to attend that one session? This year, AGU has recorded a selection of sessions and events available for viewing, free of charge. To see Centennial-focused programming, additional recorded content, presenter interviews, and networking opportunities, register for AGU GO.

2. **AGU Celebrate 100 Grants**

Have an idea for a community-based science engagement project, but need funding? To celebrate our centennial year, AGU has launched its “Celebrate 100 Grants”. These grants, valued up to $10,000 can be used to support projects designed to support grassroots activities supporting Earth and space science. Learn more here.

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**Higher Education**
1. Upcoming workshop on Diversity, Equity, and Inclusion in the Earth and Environmental Sciences

On 10 - 12 April 2019 at the University of Illinois at Chicago, NAGT will host a workshop on diversity, equity, and inclusion in the Earth and environmental sciences. The workshop will discuss the challenges and barriers faced by students, and will explore a range of approaches to broaden participation and foster inclusion at the course and program levels. The application deadline to attend is 28 January 2019.

2. Using place-based, community-inspired research to broaden participation in the geosciences

Research Experiences for Undergraduates (REUs) provide unique opportunities for students to gain research experience. This webinar provides a model for making REUs more inclusive and impactful for the local community. This webinar from the Undergraduate Field Experiences Research Network (UFERN) is part of a series on 21st Century Undergraduate Field Education, you can check out their upcoming webinars here.

3. Supporting all students through active learning

Active learning has been shown to have a positive impact on students, especially in underrepresented groups. This webinar discusses the current research on active learning, explains various models, and shows examples of successful techniques. To view a recording, click here.

4. Creating a welcoming environment for autistic students

All students benefit from diverse and welcoming campus communities, but is your institution doing enough to foster an inclusive environment for autistic students? In this Chronicle of Higher Education article, sophomore Clara Joy Gibson reflects on her own experience, writing about the ways administrators and faculty can address the needs of autistic students.

5. Tips for your first year as a department head

Being a department head can be part professorial, part diplomatic, and part exhausting. These 5 tips shared in this Inside Higher Ed video can help you thrive in your new leadership position.

K-12

1. Teaching science and engineering through investigation and design

Research has shown that students learn more when they are actively engaged. By asking questions, collecting and analyzing data, and interpreting results, students learn by practice. This recent report from the National Academies of Sciences, Engineering, and Medicine reviews research on teaching practices, providing guidance for teachers, administrators, and instructional material creators.

2. Feedback requested: Webinar series on K-12 Education
For the past 3 years these AGI, NESTA, and NAGT, have been hosting a series of webinars spanning a variety of topics of interest to educators implementing the Next Generation Science Standards in earth science. To improve these webinars, these organizations are seeking feedback and suggestions. If you would like to submit your feedback, please complete this survey.

3. Webinar: Pathways to performance expectations using InTeGrate materials
The Next Generation Science Standards (NGSS) go beyond a learning outcome for a single class period, rather they represent what students are capable of on a larger scale. This SERC webinar outlines how instructional materials created through InTeGrate can be applied in K – 12 classrooms. Missed this webinar? Check out a recording of it here.

4. Apply for the Edward C. Roy, Jr. Excellence in K-8 Earth Science Teaching Award
This award recognizes exceptional teachers for their leadership and innovation in Earth Science Education. Winning teachers are granted a $2500 prize, a grant up to $1000 to attend the National Science Teachers Association (NSTA) Annual Conference in April 2019, and a plaque of recognition. To be eligible, applicants must be full-time U.S. or U/K. teachers at K-8 level (or Key Stage 1-3 in the UK). Applications must be submitted by 18 January 2018.

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Students

1. Tips for overcoming a toxic graduate school environment
Graduate school should be challenging, not traumatizing. In this Chronicle of Higher Education article, graduate student Katie Wedemeyer-Strombel discusses the key differences between testing your limits and being pushed over the edge.

2. Chart your path using AGI's Career Compasses
Interested in a career path, but not sure where to start? The American Geosciences Institute has recently released a series of one-pagers showing students, faculty, and administrators how to build and grow their skills for a variety of career paths. This growing library of career compasses currently features fields from ocean sciences, to planetary science, to science policy.

3. Status on employment for geoscience graduates
Missed our most recent webinar? Fear not, you can view a recording of it here. In this webinar, we discuss the most recent results of the American Geosciences Institute’s student exit survey.

4. Steps to Success: Applying to GSA and other graduate student research grants
The application for GSA student research grants opened on 1 December. To assist students in crafting a successful application, GSA hosted a webinar focused on applying for the GSA Graduate Research Grant program and other research grants. To view a recording of this past webinar, click here.

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