

# 2024 Virtual AGeS Community Symposium

May 6-7, 2024

<https://cuboulder.zoom.us/j/92963876272>



8 am-12 pm PT

9 am-1 pm MT

10 am-2 pm CT

11 am-3 pm ET

**Overview:** The [Advancing Geochronology Science, Spaces, and Systems](#) (AGeS<sup>3</sup> or AGeS-cubed) **initiative** is a 5-year NSF-funded project to increase access to geochronology data and expertise, to support and grow the geochronology community, and to promote inclusive and collaborative science. This will be accomplished through a **trio of micro-funding programs that will make ~150 strategic micro-awards of \$8-\$15k each across three subprograms over 5 years:** [AGeS-Grad](#), [AGeS-DiG](#), and [AGeS-TRaCE](#).

The annual virtual AGeS community symposium is intended to strengthen the geochronology community and its networks and will provide opportunities for senior scientists, early career scientists, and graduate students to engage and interact. The 2024 symposium consists of two sessions with invited talks, AGeS updates, and short AGeS project presentations, as well as two breakout sessions to enable discussion and feedback on Community Needs and interaction between AGeS-Grad awardees and future program applicants. The symposium will include opportunities for questions and discussion about the new [AGeS-TRaCE \(Training and Community Engagement\) microaward program](#), which provides awards of up to \$10,000 (no overhead) for projects aimed at addressing needs in training and community engagement within the broad field of geochronology.

If you are interested in joining the AGeS listserv to stay updated on AGeS funding opportunities and other activities, please visit the [AGeS website](#) to subscribe.

**Day 1. Monday May 6.** Spring AGeS-Grad Cohort Meeting - AGeS-Grad '23 and '24 awardees only

**Day 2. Tuesday May 7, 2024**

## ***Session 1: AGeS Updates and Geochronology Community Activities***

*Moderator: Bella Bennett (Univ Vermont)*

8:00-8:10: Welcome, Goals, and Overview - *Becky Flowers (CU-Boulder) and Ramon Arrowsmith (ASU)*

8:10-8:25: "AGeS3: Updates and Looking Forward to the AGeS-TRaCE Micro-award Program" - *Becky Flowers (CU-Boulder)*

8:25-8:35: "A National Geochronology Consortium?" - *Blair Schoene (Princeton)*

8:35-8:50: "Streamlining Geochronological Data Management, Access, and Preservation through IEDA2 (EarthChem/SESAR) Systems" - *Lucia Profeta (LDEO-Columbia)*

8:50-9:20: 5x5 min lightning talks on AGeS-Grad awardee projects

Samantha Dunn (Cal State Fullerton) - 2023 awardee  
Haley Thoreson (University of Idaho) - 2021 awardee  
Zena Robert (Montana State University) - 2023 awardee  
Jonathan Anaya (New Mexico Tech) - 2023 awardee  
Bailey Nordin (Dartmouth) - 2024 awardee

### Breakout Sessions

9:20-9:30: Breakout explanation - *Ramon Arrowsmith (ASU)*

9:30-10:00: Breakouts.

#### *Breakout 1: Community Needs*

- General discussion about the needs of the broad geochronology community, both data producers and users. Discussion may include feedback for AGeS, what is missing from the current AGeS micro-award programs, data management needs, brainstorming of projects for the TRaCE and DiG program, and related subjects. Questions that may help seed the discussions:
  - What are the broad needs of the geochronology community (e.g., human infrastructure, cyberinfrastructure, technical infrastructure, innovation, access and inclusion)?
  - How can we use AGeS to address those needs?
- Four parallel breakout sessions will be held with the same general topic assignment to keep numbers in the breakouts low so more voices can be heard. Random distribution of participants.
- Breakout moderators: *Nathan Brown (UT-Arlington)*, *Julie Fosdick (UConn)*, *David McGee (MIT)*, *Trevor Waldien (SD School of Mines)*

#### *Breakout 2: Graduate Students and the AGeS-Grad Program.*

- Opportunity for current AGeS-Grad awardees and prospective applicants to interact and exchange ideas about the AGeS-Grad program and experiences working in geochronology labs.
- Two parallel breakout sessions will be held with the same topic assignment.
- Breakout moderators: *Haley Thoresen (Univ ID)*, *Samantha Dunn (Cal State Fullerton)*

10-10:20: Break

### ***Session 2: Geochronology Advances.***

*Moderator: Mauricio Ibanez-Mejia (UAZ)*

10:20-10:45: Breakout reporting and discussion - *facilitated by Ramon Arrowsmith (ASU)*

10:45-11:00: "Reflections on Developing and Leading an AGeS-DiG Funded Summer Research Program" - *Bella Bennett (Univ Vermont)*

11:00-11:15: "Beyond the Chron: How Rethinking the Physics behind Luminescence Dating Leads to New Tools for Sediment Tracing and Provenance" - *Harrison Gray (USGS)*

11:15-11:30: "Combining Laser Ablation with Time of Flight Mass Spectrometry for High Spatial Resolution Petrochronology" - *John Cottle (University of California Santa Barbara)*

11:30-11:45: "Merging Stratigraphy and Dates - An Introduction to Bayesian Age-Depth Modeling in Deep Time" *Robin Traylor (University of California Merced)*

11:45-12: Closing Discussion (*Mauricio Ibanez-Mejia, Ramon Arrowsmith, Becky Flowers*)