

AGENDA
2025 Virginia Geological Research Symposium
Virginia Department of Energy
Geology and Mineral Resources Program
900 Natural Resources Drive, Charlottesville, VA 22903

Friday April 25, 2025

- 8:00 – 8:30 a.m. Registration and “Meet and Greet” with refreshments
- 8:30– 8:45 a.m. Welcome – Matt Heller
- 8:45 – 9:45 a.m. **Technical Session #1**
- 8:45 – 9:05 *Observations of landslides from Hurricane Helene in the Blue Ridge of Northwestern North Carolina and Northeastern Tennessee* – Arthur Merschat, U.S. Geological Survey
- 9:05 – 9:25 *Material properties of ridge-forming lithologies in the Valley and Ridge and Blue Ridge of the southern Appalachians* – James Spotila, Virginia Tech
- 9:25 – 9:45 *Sediment deposition processes in cave ecosystems: case study in water sinks cave, Highland County, VA* – Dhanuska Wijesinghe, James Madison University
- 9:45 – 10:00 a.m. **Break**
- 10:00 – 11:00 a.m. **Technical Session #2**
- 10:00 – 10:20 *Overview of DEQ Groundwater Characterization and Monitoring* – Brian Campbell, Virginia Department of Environmental Quality
- 10:20 – 10:40 *Determining the feasibility of crossing the Shenandoah River (Page County) with HDD in karst terrain* – Robert Denton, Terracon
- 10:40 – 11:00 *Karstview: development of a single data viewer to serve complex data to diverse user types* – Catherine Brown, Virginia Department of Energy
- 11:00 a.m. – noon **Poster Sessions** (see separate list of posters)
- 12:00 – 1:00 p.m. Lunch on your own (see list of local restaurants)
- 1:00 – 2:00 p.m. **Breakout Sessions**
- Breakout #1 Lightning talks
- Breakout #2 Virginia Geological Society brainstorming session
- Breakout #3 Rock reveal – critical mineral identification

2:00 – 3:00 p.m.	Technical Session #3
2:00 – 2:20	<i>Age, origin, and tectonic significance of the Arvonian and Buffards Formations in Virginia's Piedmont</i> – Annika Wolle, Chuck Bailey, Lisa Stockli, and Daniel Stockli, College of William and Mary and University of Texas at Austin
2:20 – 2:40	<i>From collision to extension, the timing of Exhumation, uplift, and rifting in Virginia's eastern Piedmont</i> – Chuck Bailey, Zachary Foster-Baril, Ryan McAleer, Hope Duke, and Daniel Stockli, College of William and Mary, University of Texas at Austin, and U.S. Geological Survey
2:40 – 3:00	<i>Why the long facies? Factors controlling the expression of the Cambrian SPICE event in the southern Appalachians</i> – Amy Hagen, Benjamin Gill, and Sara Pruss, Virginia Tech and Smith College
3:00 – 3:30 p.m.	Break with refreshments
3:30 – 4:30 p.m.	Technical Session #4
3:30 – 3:50	<i>An update on Earth mapping resources initiative (Earth MRI) airborne geophysics in the southeastern U.S.</i> – Anji Shah, Patricia MacQueen, Chloe Gustafson, Dylan Connell, Mark Carter, Daniel Doctor, and Arthur Merschat, U.S. Geological Survey
3:50 – 4:10	<i>Assessment of critical raw materials (CRM) in Pennsylvanian-age coals and associated sediments of the Central Appalachian Basin, eastern U.S.A.</i> – William Lassetter, Richard Bishop, and Kevin Andrews, Critical Minerals Geologist, LLC, Virginia Tech, and Marshall Miller and Associates
4:10 – 4:30	<i>Aggregate resource reconnaissance mapping in the Coastal Plain of Virginia</i> – David Hawkins and Lauren Schmidt – Virginia Department of Energy
4:30 p.m.	Summary and wrap-up