Strengthening Geoscience Together

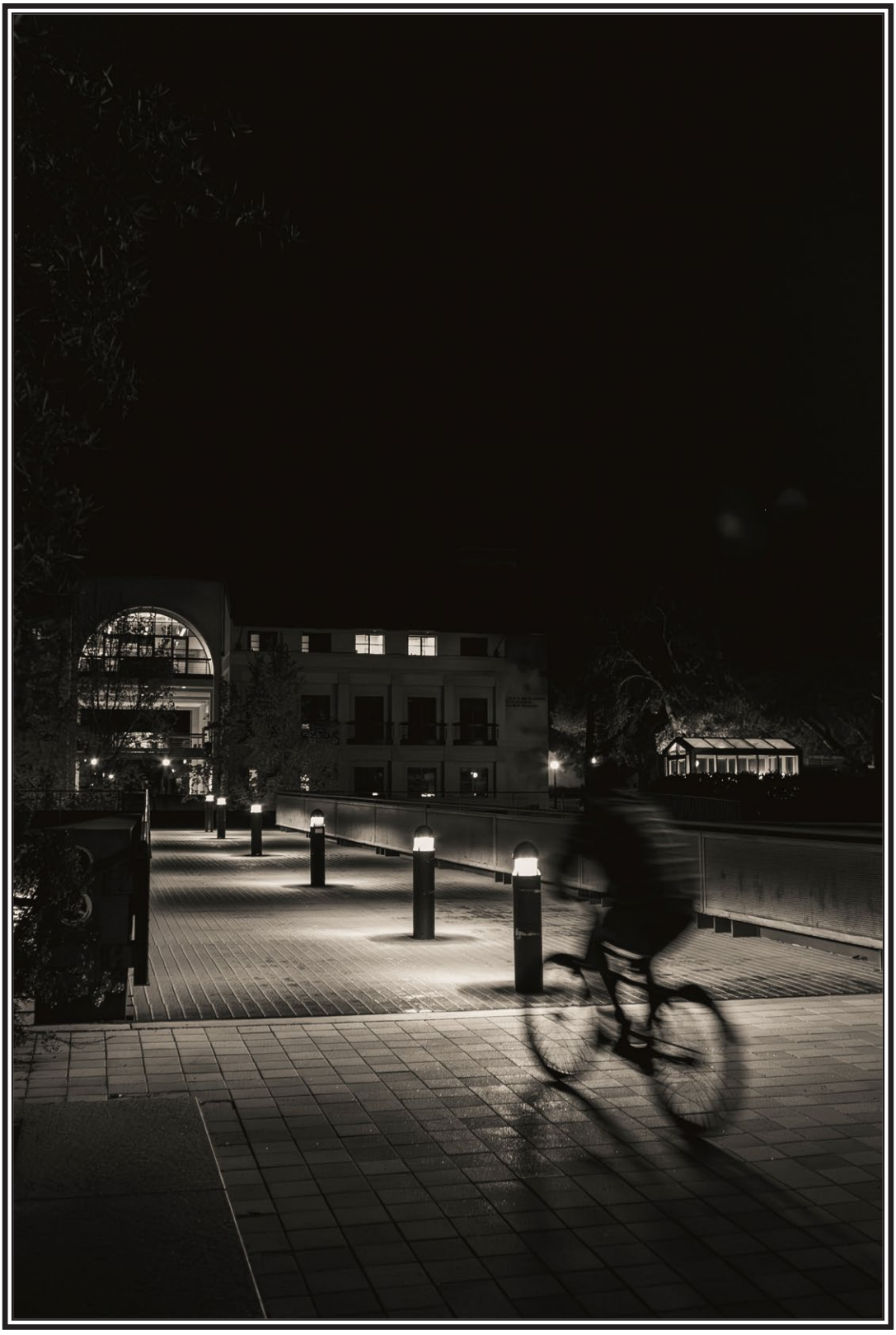
Annual Report 2025
American Geosciences Institute



The American Geosciences Institute represents and serves the geoscience community by providing collaborative leadership and information to connect Earth, science, and people.

www.americangeosciences.org

AGI american® geosciences institute
connecting earth, science, and people



Credit: Allison Yue, for the 2025 Earth Science Week Photography Contest

Front cover credit: Changyi (Ethan) Li, for the 2025 Earth Science Week Photography Contest

LETTER TO OUR VALUED STAKEHOLDERS

Preparing for tomorrow begins with investing in the geoscientists of today. At the American Geosciences Institute (AGI), we believe innovation is strongest when it is rooted in deep expertise, collaborative leadership, and a shared commitment to serving society. Throughout 2025, AGI worked side by side with partners across the geoscience community to advance education, research, workforce development, and professional growth, ensuring that Earth science remains central to solving the nation's most pressing challenges.

AGI's mission is simple but powerful: *represent and serve the geoscience community by providing collaborative leadership and information to connect Earth, science, and people.* That mission has never been more vital. Geoscientists are at the forefront of natural resource discovery and responsible development. They safeguard energy, mineral, and water supplies; monitor and interpret climate change; establish environmental baselines; protect soil and water systems, and mitigate natural hazards. Their work strengthens national and energy security, economic stability, public safety, and environmental stewardship.

AGI remains committed to transforming mission into action. This past year, we delivered forward-looking solutions in collaboration with affiliated societies, federal agencies, academic institutions, and industry partners. Among our key accomplishments:

- **Advancing National Policy Dialogue** — We launched **Critical Needs: Geosciences Meeting the Needs of the Nation**, a six-part series demonstrating how geoscience informs solutions related to the economy, infrastructure, innovation, national security, public safety, and diplomacy. The series was widely distributed to national policy leaders through targeted outreach, media engagement, and direct communications.

- **Quantifying the Value of Geological Mapping** — In partnership with the **Association of American State Geologists**, AGI released ***Economic Analysis of the Costs and Benefits of Geological Mapping in the United States of America from 1994 to 2019***. This landmark study — the most comprehensive of its kind — revealed the extraordinary return on investment and long-term societal benefits of geological mapping.

- **Strengthening Soil Science Education** — Working with the **Natural Resources Conservation Service** (NRCS) and the **Soil Science Society of America** (SSSA), AGI expanded soil science education initiatives. These included a hands-on **Soil Science Workshop** connecting educators with experts, an immersive **Teacher Field Experience** translating research into classroom-ready lessons, **Virtual Field Experiences** bringing soils into schools nationwide, and more.

- **Expanding Access to Global Research** — AGI continued to grow and evolve **GeoRef**, the world's premier bibliographic database for geoscience literature, including the **GeoRef Serials List** and **Open-Access Journals/ Series**. With publications spanning more than 60 languages and over 140 countries, GeoRef ensures researchers and students have access to the most current scholarly resources worldwide.

- **Enhancing STEM Teaching Excellence** — We partnered with **ExxonMobil** to develop a new approach to the **Geoscience and STEM Teaching and Learning Academy** (TLA). Starting in 2025, past TLA participants began organizing and leading local TLA experiences for their colleagues, making use of TLA resources and AGI guidance and support.

- **Informing Resilience** — AGI delivered the **final report** with **data and results** from the multi-year **GRANDE (Geoscience Program Adaptation to Natural Disruptive Events)** study, funded by the National Science Foundation (Award No. 2223004). The findings evaluated how the U.S. geoscience community responds, adapts and communicates regarding natural hazards and climate risks, and informs future actions and risk mitigation.

- **Empowering Geoscience Communicators** — With support from the **American Association of Petroleum Geologists Foundation** and the **Society of Exploration Geophysicists**, AGI offered free access to Geologize's acclaimed online communication course, **Practical Geocommunication** to U.S.-based Member Society participants. The course attracted 1,526 enrollments, strengthening our community's ability to communicate science clearly and effectively.

- **Developing Science Policy Leadership** — AGI's **William L. Fisher Congressional Geoscience Fellowship** enabled a geoscientist to serve in a Congressional office, to inform national decision making on issues of energy, environment, and public lands.

- **Expanding Our Global Community** — We welcomed the **International Medical Geology Association** (IMGA) and the **International Raw Materials Observatory** (INTRAW) as **International Associates**, strengthening AGI's global federation.

- **Promoting Excellence** — AGI celebrated the achievements of exceptional geoscience professionals with the **Marcus Milling Legendary Geoscientist Medal**, the **AGI Award for Outstanding Contribution to the Public Understanding of the Geosciences**, the **William B. Heroy Jr. Award for Distinguished Service to AGI**, and the **Edward C. Roy Jr. Award for Excellence in K–8 Earth Science Teaching**.

These accomplishments represent only part of what we achieved together in 2025. Each initiative shows that when geoscience thrives, society benefits. By addressing global challenges, we simultaneously strengthen the discipline itself and demonstrate its relevance, application, and indispensable value in the 21st century. As we look ahead, we are excited about advancing geoscience professionalization and the enterprise workforce, and we invite you to continue this journey with us. Together, we can ensure that geoscience drives the innovations needed to build a prosperous, healthy future in balance with Earth's dynamic systems.



Claudia Mora
AGI President 2025–2026



Jonathan Arthur, Ph.D.
Executive Director 2021–2026

CHEERS



"We all benefit from AGI's promotion of professional development and the Geoscience Job Center. We are all inspired by the impressive outreach of Earth Science Week, and by AGI's development of curricula and other resources for educators. AGI plays a critical and timely role through its clear and effective policy work addressing issues facing our planet. And, what has been especially influential in my career, AGI's development and open-access dissemination of key geoscience data resources have pointed my own research in the direction of informatics and data-driven discovery. These contributions of AGI are lasting and inspiring legacies."

— Robert Hazen, Executive Director of the Deep Carbon Observatory and Research Scientist at the Carnegie Institution for Science's Earth and Planets Laboratory

"Our partnership on No Child Left Inside Day during Earth Science Week reflects a shared commitment to helping students experience Earth science firsthand and see themselves as part of its future. We value AGI's leadership in bringing together the geoscience community to educate, inspire, and spark curiosity about our planet."



— Sara Espinoza, President and CEO of the National Environmental Education Foundation

"SME has been a longtime member and supporter of AGI. AGI provides a great resource to the geoscience community by offering an opportunity for many of the geology-centric organizations to collaborate and work together for the benefit of the many workforce and government-related issues affecting the community."

— David Kanagy, Executive Director and CEO, Society for Mining, Metallurgy & Exploration

Portrait credits: Jonathan Arthur: AGI/Geoff Camphire. All portraits appear courtesy of pictured individuals.

AGI BY THE NUMBERS

4,179 Resources curated and provided in AGI's **Education GeoSource**, an interactive database promoting the distribution of geoscience education resources. These resources were accessed 42,658 times from September 2024 to October 2025.

83 Organizations that collaborated with AGI on **Earth Science Week** and other Education and Outreach programs, resulting in the creation of 127 educational resources.

378 Submissions from 33 U.S. states, Puerto Rico, and 17 countries to the **Earth Science Week Contests**, including essay, video, visual arts, and photography categories.

4,800,000+ References made available in the **GeoRef** bibliographic database and the GeoRef in Process database, with more than 2,000 subscribing institutions around the world.

49 Presentations made by AGI staff at geoscience professional conferences.

809 Active learners benefiting from the 37 professional development courses available through AGI's **Geoscience Online Learning Initiative** (GOLI) platform, with 313 CEU (Continuing Education Unit) certificates issued.

31 Webinars conducted for the geoscience community about topics ranging from undergraduate geoscience teaching and geoscience careers to glacier geomorphological mapping for climate change.

1,526 New enrollments in the acclaimed **Practical Geocommunication** course, offered free to U.S.-based members of AGI Member Societies, from October 2024 to September 2025.

150 Geoscience leaders, representing nearly all AGI Member Societies, attending the past year's five assemblies of the Geoscience Caucus, a forum for organization leaders to discuss challenges and solutions within the geoscience enterprise.



Credit: AGI/Brenna Tobler



Credit: AGI/Midjourney

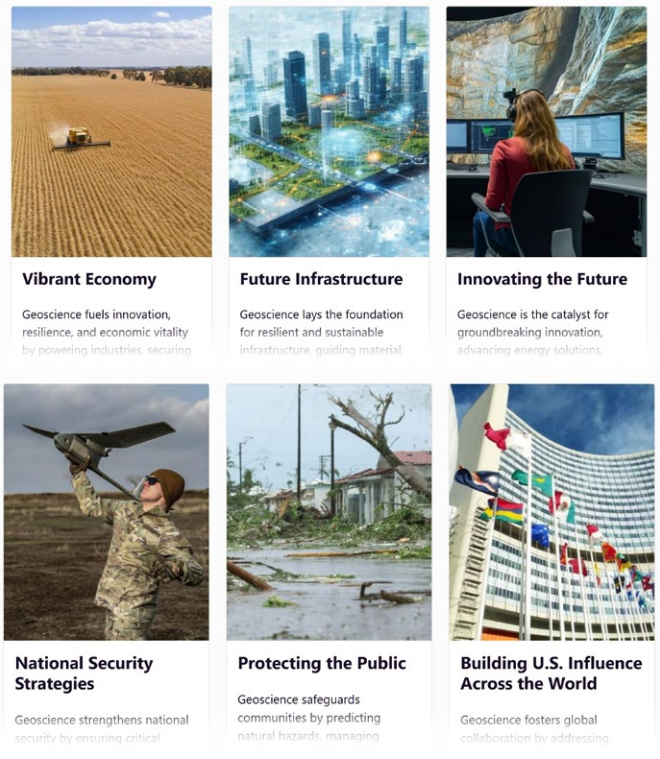
CRITICAL NEEDS DOCUMENT ROLLS OUT POLICY PRIORITIES

When AGI launched **Critical Needs: Geosciences Meeting the Needs of the Nation** in January 2025, the Institute not only posted the six-part document series on its website, but launched a strategic campaign strategic campaign of outreach efforts brought the new resource to the attention of policymakers, influence leaders, and others over the course of the year.

Laying a foundation of broad awareness, press releases and social media posts across AGI's five main platforms — LinkedIn, Instagram, Facebook, X, and Bluesky — generated engagement, reactions, and conversation about the series, which provides geoscience-focused insights about critical issues for the presidential administration, federal agencies, and the U.S. Congress (**see page 13**). AGI repeatedly reinforced the message that geoscience expertise must be effectively leveraged in shaping policies that benefit the nation.

In April and June 2025, AGI partnered with the **American Geophysical Union** (AGU), which organized two **Days of Action** to encourage geoscientists to talk to policymakers of all parties about supporting science. Through the initiative, AGU provided training and resources to help scientists advocate for strong support for sustained investment in Earth and space sciences and highlight the dangers of cutting research funding and weakening the U.S. federal workforce. AGI empowered participating scientists with Critical Needs to help show how the geoscience community's knowledge, experience, and expertise advance solutions to the nation's most urgent challenges. The Critical Needs web page saw a surge of traffic as a result.

In August AGI conducted its most significant promotion of Critical Needs. A targeted email campaign reached out to approximately 3,000 congressional leaders and staffers on Capitol Hill with connections to the geoscience enterprise, urging them to capitalize on the guidance offered by Critical Needs. That promotion generated more than 2,200 page views on the program website site in a single day, by far the largest wave of engagement with Critical Needs. As the political landscape continues to evolve, the successes of these efforts are informing ongoing outreach around Critical Needs.



Credits: AGI Critical Needs web page section: AGI



Credit: Lisbeth Flores, for the 2025 Earth Science Week Photography Contest

AGI WEBINAR ADDS TO EARTH DAY 2025

Students, educators, geoscience professionals, and others were invited to participate in the second-ever AGI Earth Day Webinar, titled "The Science of Net Zero Buildings," on April 21, 2025.

Spotlighting the headquarters of the **American Geophysical Union** (AGU) as the first Net Zero building in Washington, D.C. — the facility produces as much energy as it consumes annually — the free webinar celebrated both the 2025 Earth Day theme, "Our Power, Our Planet," and the 2025 Earth Science Week theme, "Energy Resources for Our Future."

Aimed at the general public and education community, the webinar featured four speakers, including representatives of EARTHDAY.org, AGU, and the Andlinger Center for Energy and the Environment at Princeton University.

The webinar included pre-recorded presentations and segments from a tour offered by AGU, exploring the Net Zero features within the building. During the premiere, presenters engaged with the audience, answered questions, and participated in discussions in the online chat. The recording was made available at **Earth Science Week Webinars** following the premiere.

JOINT STATEMENT FOR EARTH DAY

Underscoring the essential role that geoscience knowledge plays in fostering action toward stewardship of the planet, AGI joined 18 global partners in issuing a joint Earth Day 2025 statement:

The Earth Day 2025 theme, "Our Power, Our Planet," calls on all people to work towards a future where energy is sustainable and accessible for everyone. The geosciences provide important data, models, and knowledge that can guide responsible assessment, sustainable development, and management of energy resources.

Sustainable and ethical development calls for applications of both established principles and innovative approaches that are enabled by geoscientists. The global geoscience community is committed to improving the knowledge, policy environment, and public awareness needed for us all to make conscientious energy-related decisions and take well-considered actions across all aspects of our lives.

To this joint statement, AGI added:

The American Geosciences Institute supports Earth Day as an important opportunity to raise geoscience awareness, which is also supported through Earth Science Week (October 12–18, 2025) and its theme of "Energy Resources for Our Future."

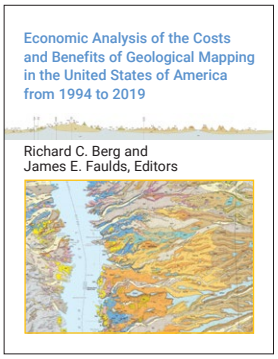


Credit: Srishti Swaroop, for the 2025 Earth Science Week Photography Contest

IMPROVING THE GEOSCIENCE PROFESSION AND HIGHER EDUCATION

- Unveiled a six-part document series, **Critical Needs: Geosciences Meeting the Needs of the Nation**, to illuminate ways that the geoscience community's knowledge, experience, and ingenuity can support solutions for our nation's urgent policy challenges. The series, distributed to federal government leaders (see page 4), frames issues in terms that policymakers often address — the economy, infrastructure, innovation, national security, public safety, and diplomacy — and includes exemplars of geoscience impact, case studies, related National Academy of Sciences reports, examples of relevant policy, and non-profit organizations providing non-partisan expertise.

- Released, in collaboration with the **Association of American State Geologists**, a groundbreaking report entitled ***Economic Analysis of the Costs and Benefits of Geological Mapping in the United States of America from 1994 to 2019***, which delivers an in-depth economic assessment of geological mapping efforts and demonstrates the significant return on investment and critical benefits for industry, government, and society at large. The report is the product of the largest and most comprehensive economic analysis of geological mapping ever conducted.



- Published a wealth of **data and results** as well as a **final report** of the multi-year **GRANDE (Geoscience Program Adaptation to Natural Disruptive Events)** study, funded by the National Science Foundation (Award No. 2223004), which identifies best practices for U.S. geoscience academic institutions and organizations in responding to and recovering from natural disasters. Findings underscore geoscience's evolving role in tackling challenges such as climate change, resource scarcity, and natural hazards.

- Continued regularly updating information available through AGI's **Geoscience Workforce Data Dashboard**, a one-stop location for the metrics of the geoscience enterprise. From tracking employment of geoscientists to the dynamics of academia, including enrollments, degrees, and faculty, the dashboard is the entry point into the rich data about the geosciences measured by the AGI Geoscience Profession and Higher Education Program.



Credits: AGI



Credit: Maria Reyes, for the 2025 Earth Science Week Photography Contest

NEW REPORT ON THE BENEFITS OF GEOLOGICAL MAPPING HAILED

Geoscience leaders have applauded a groundbreaking study published by AGI and edited by Richard Berg (Illinois State University) and James Faulds (Nevada Bureau of Mines & Geology) that proves what geoscientists have long known: investing in geological mapping delivers massive returns for society. The landmark ***Economic Analysis of the Costs and Benefits of Geological Mapping in the United States of America from 1994 to 2019***, provides the first nationwide economic analysis of geological mapping. For every dollar invested, the report shows, geological mapping has delivered 7 to 10 times in benefits — and in some cases, as much as 35 times.

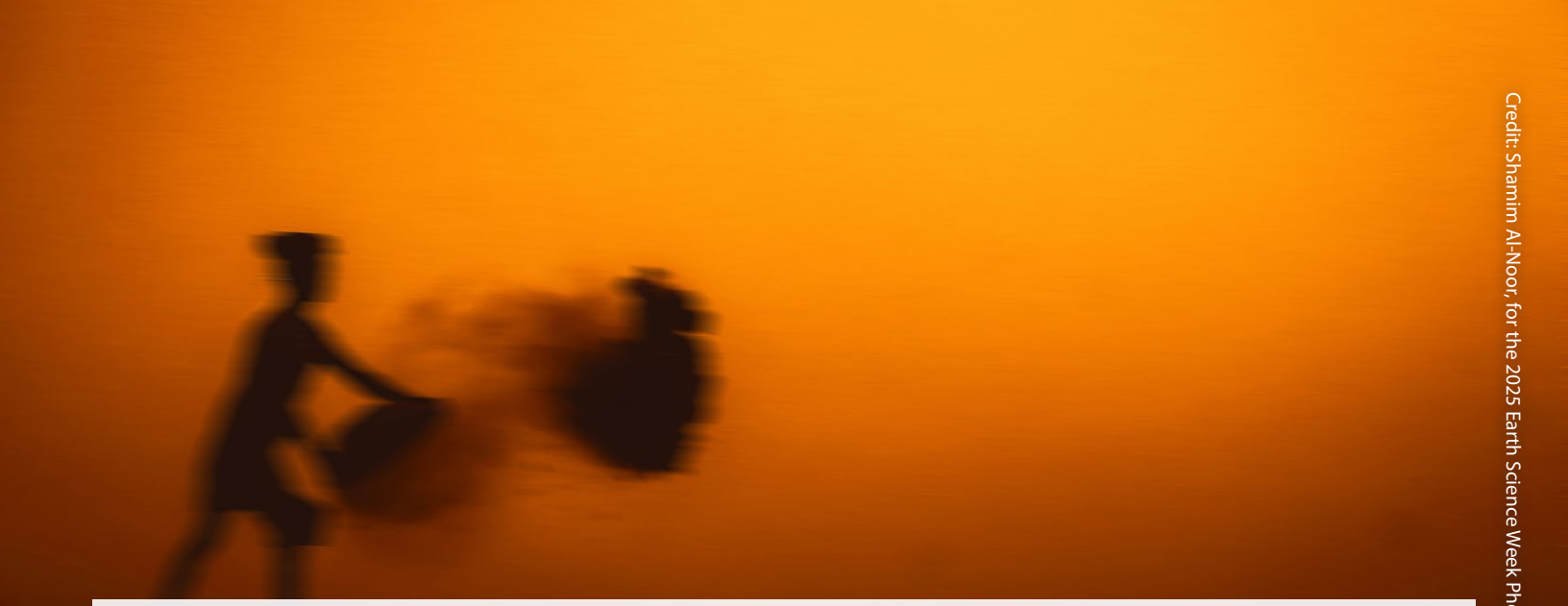
For those in industry, this news has been no surprise. "Public geoscience data like EarthMRI surveys make exploration more efficient — reducing both financial risk and environmental disturbance. For mineral exploration companies like ours, that's a game-changer," said Scott Petsel, President of **Metallic Minerals**. Petsel emphasized that enhanced mapping helped his company more effectively guide exploration in Colorado, saving costs, reducing risks, and lowering environmental impact.

Geoscientists in the public sector likewise recognized the crucial importance of this research. "Because groundwater aquifers are its sole source of drinking water, McHenry County, Illinois, has invested in 3-dimensional geological mapping through the Illinois State Geological Survey," said Scott Kuykendall, Water Resources Specialist of **McHenry County**. "Importantly, the visualization of subsurface geology is invaluable as an educational tool to help elected officials and the public understand the hidden complexities of groundwater."

Geological maps, produced by state geological surveys and the **U.S. Geological Survey** (USGS), are more than scientific charts. They are essential public resources that provide vital insights into the Earth's surface and near-surface layers. This knowledge forms the foundation for smarter, safer, and more sustainable decision-making regarding natural resources (e.g., critical minerals, groundwater, and geothermal energy) and geologic hazards (e.g., earthquakes, landslides, floods, and sinkholes).

The impact? With $1.99 billion invested in geological mapping between 1994 and 2019 (in 2020 dollars), the study estimates $13.9 billion to $20.6 billion in total economic benefits, analyzed via four different approaches. Moreover, the report shows how benefits extend across multiple sectors, including construction, real estate, mining, energy, infrastructure, transportation, environmental protection, public policy, and disaster response.

The study was co-led by the Nevada Bureau of Mines & Geology at the University of Nevada, Reno, and the Illinois State Geological Survey at the University of Illinois, Urbana-Champaign, with funding provided by the USGS (Award No. G19AC00417). The project included a steering committee of **Association of American State Geologists** members and a former USGS economist as well as participation from the **American Institute of Professional Geologists**, and AGI. The National Academy of Sciences coordinated professional review.



Credit: Shamim Al-Noor, for the 2025 Earth Science Week Photography Contest

STRENGTHENING EARTH SCIENCE EDUCATION AND OUTREACH

- Partnered with the **Natural Resources Conservation Service** (NRCS) to expand the way teachers and students connect with soil science through a multifaceted **AGI & NRCS Collaboration**, including a **Soil Science Workshop** at Oregon State University that enables middle and high school teachers to work alongside soil experts in making field observations and lab analyses, a **Teacher Field Experience** program that lets educators collaborate directly with NRCS scientists in the field and translate those experiences into curriculum-ready lessons, **Virtual Field Experiences** that allow educators to explore Wisconsin and Oregon soils without leaving their classrooms, educator guides for the NRCS **Web Soil Survey** national database, and new hands-on lessons that incorporate soil data.



USDA Natural Resources Conservation Service
U.S. DEPARTMENT OF AGRICULTURE

Earth Science Education Activity

Exploring Organic Matter in Soil

Background: Organic matter in soil is indispensable for soil health and ecosystem vitality, as it actively participates in nutrient cycling, soil structure maintenance, water retention, erosion prevention, and carbon sequestration. It fosters a thriving community of soil organisms, supports robust plant growth, and significantly contributes to mitigating climate change by capturing carbon dioxide from the atmosphere and storing it. Comprehensive knowledge of organic matter dynamics is crucial for implementing sustainable land management practices, optimizing agricultural productivity, and safeguarding ecosystem resilience against environmental stressors worldwide.

Diverse species and planned grazing significantly improve soil health, as indicated by increased organic matter and earthworms.
Credit: Ron Nichols/USDA NRCS

Key Question: How does organic matter vary in soil around an urban environment (Chicago) and in my community?

STANDARDS
NGSS: MS-ESS3-3
SDG 2: Zero Hunger
SDG 13: Climate Action
SDG 15: Life on Land

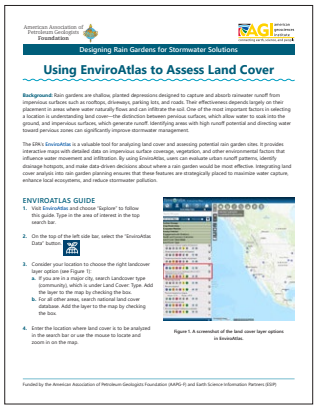
Learn more about the United Nation's Sustainable Development Goals (SDGs) and explore resources for educators from UNESCO: https://en.unesco.org/themes/education/sdgs/material

MATERIALS
• Web Soil Survey map handouts

Relative amounts of soil organic matter.
Credit: Hargrove and Luxmoor, 1988, released to USDA

U.S. Department of Agriculture's Natural Resources Conservation Service (USDA NRCS) • www.soils.usda.gov

The USDA NRCS delivers science-based soil information to help farmers, ranchers, foresters, and other land managers effectively manage, conserve, and appraise their most valuable investment — the soil.



American Association of Petroleum Geologists Foundation

Designing Rain Gardens for Stormwater Solutions

Using EnviroAtlas to Assess Land Cover

Background: Rain gardens are shallow, planted depressions designed to capture and absorb rainwater runoff from impervious surfaces such as rooftops, driveways, parking lots, and roads. Their effectiveness depends largely on their placement in areas where water naturally flows and can infiltrate the soil. One of the most important factors in selecting a location is understanding land cover—the distinction between pervious surfaces, which allow water to soak into the ground, and impervious surfaces, which generate runoff. Identifying areas with high runoff potential and directing water toward pervious zones can significantly improve stormwater management.

The EPA's EnviroAtlas is a valuable tool for analyzing land cover and assessing potential rain garden sites. It provides interactive maps with detailed data on impervious surface coverage, vegetation, and other environmental factors that influence water movement and infiltration. By using EnviroAtlas, users can evaluate urban runoff patterns, identify drainage hotspots, and make data-driven decisions about where a rain garden would be most effective. Integrating land cover analysis into rain garden planning ensures that these features are strategically placed to maximize water capture, enhance local ecosystems, and reduce stormwater pollution.

ENVIROATLAS GUIDE

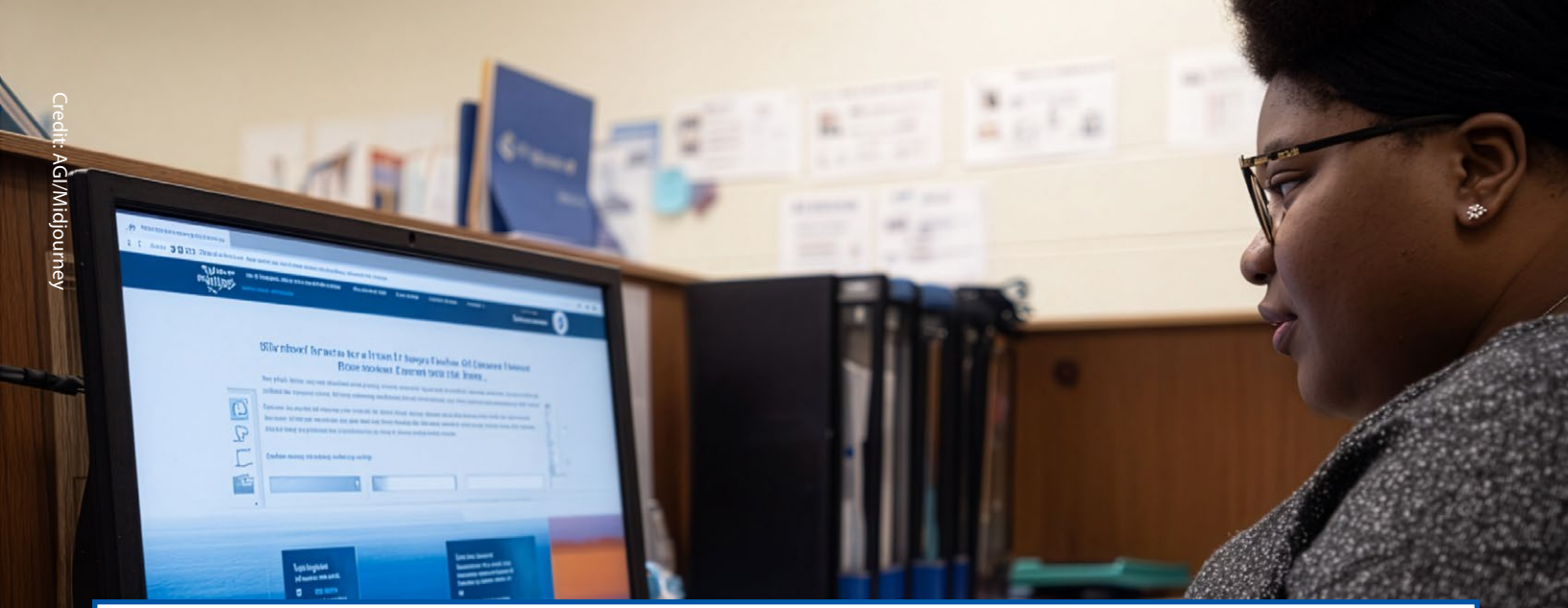
1. Visit EnviroAtlas and choose "Explore" to follow this guide. Type in the area of interest in the top search bar.
2. On the top of the left side bar, select the "EnviroAtlas Data" button.
3. Consider your location to choose the right landcover layer option (see Figure 1):
   a. If you are in a major city, search Landcover type (community), which is under Land Cover. Type. Add the layer to the map by checking the box.
   b. For all other areas, search national land cover database. Add the layer to the map by checking the box.
4. Enter the location where land cover is to be analyzed in the search bar or use the mouse to locate and zoom in on the map.

Figure 1. A screenshot of the land cover laye options in EnviroAtlas.

Funded by the American Association of Petroleum Geologists Foundation (AAPG-F) and Earth Science Information Partners (ESIP)

- Led development of the Resilience and Innovation in Nature-based Stormwater Solutions (RAINSS) curriculum, an educational framework that helps schools and communities understand and address stormwater flooding through nature-based solutions, especially rain gardens. RAINSS, tailored for middle and high school audiences, enables participants to explore stormwater issues, analyze relevant real-world data, engage in hands-on design and assessment of rain gardens, and strengthen local resilience to flooding. The effort helps schools and communities facing stormwater challenges to identify flood-prone areas; conduct soil analyses, surveying, plant selection, and site design; and gauge the effectiveness of local rain gardens using provided tools. The initiative also includes educator professional development and outreach components, such as conference presentations and workshops that support teachers in implementing the curriculum and connecting students with local stormwater resilience efforts.
- Delivered 18 presentations at major science education-related conferences and events nationwide, including meetings of **The Geological Society of America**, the **National Science Teaching Association**, the **Earth Science Information Partners**, and more.

Credits: AGI



Credit: AGI/Midjourney

WEBINARS ENGAGE GEOSCIENCE EDUCATION AUDIENCE

The **AGI Education & Outreach Department** was busy in 2025, adding to an ever-expanding lineup of free **webinars** on K–12 topics to support educators, geoscience professionals, and curious learners from around the world. AGI partner organizations benefit from the webinars in that they provide a forum for sharing content and tapping into the broad audiences cultivated by AGI.

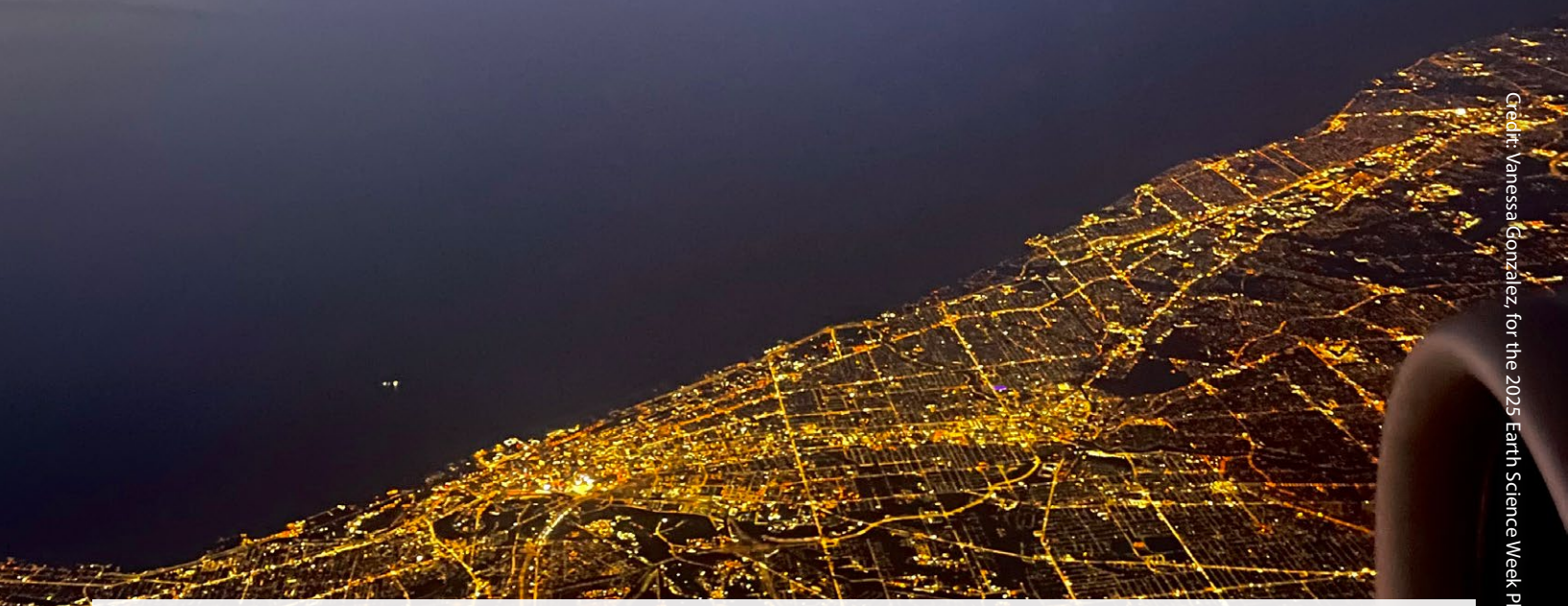
An important component is the **Earth Science Week Webinar Series**, which has become a staple since its launch in 2020. As **Earth Science Week** activities take place around the globe annually, the webinar series has emerged as a feature of the celebration hosted by AGI. Each year's talks are inspired by the event theme — in 2025 it was "**Energy Resources for Our Future**." Topics often connect with education resources, such as geologic maps provided by the U.S. Geological Survey (USGS).

Partners have shared that they appreciate the series as a forum for sharing with a broad audience. Aidan Charron, Associate Director of Global Earth Day, hosted a webinar on behalf of **EarthDay.org** about the importance of earth science and its relation to protecting human and environmental health, with a focus on plastics. "Participants and viewers of these webinars are the current and next generation of earth science leaders," said Charron. "The webinars go a long way toward introducing subjects that educators and geoscience professionals may not normally come across."

Participation in our Earth Science Week webinars has risen since the 2020 implementation. A growing share of that audience has been international, with the largest numbers of participants (after the United States) viewing from India, Colombia, and Nigeria.

AGI is also building new traditions. In 2024, for the first time, AGI hosted an **Earth Day webinar**, encouraging participants to raise awareness of geoscience as they consider the Earth Day theme and goals. The 2025 Earth Day webinar offered an educational tour of the headquarters of the **American Geophysical Union** (AGU), an AGI Member Society and longtime Earth Science Week partner and sponsor. Participants learned about the building materials of AGU's **net zero energy facility**, a perfect tie-in for the 2025 Earth Science Week theme as well as the Earth Day 2025 theme of "Our Power, Our Planet."

Another standout has been the **Early Career Professionals in Mapping** webinar series, supported by the USGS's **National Cooperative Geologic Mapping Program**. From 2023 through 2025, 11 interactive webinars have introduced K–12 teachers and students to real-world geologic mapping practices and career pathways. With an average of 523 viewers per session — and two topping 1,000 — the series has made an impact.



Credit: Vanessa Gonzalez, for the 2025 Earth Science Week Photography Contest

FURTHERING SCHOLARLY INFORMATION IN THE GEOSCIENCES

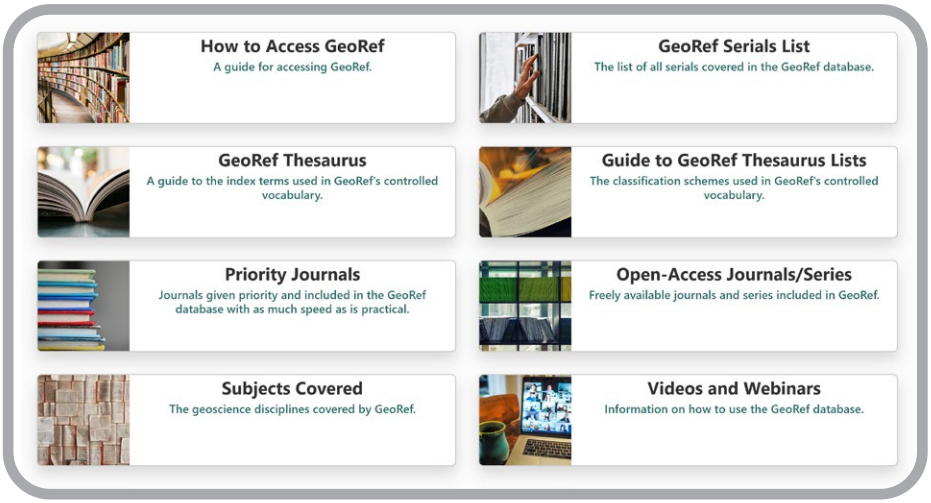
- Increased the offerings of **GeoRef**, the primary bibliographic database of the geoscience literature, to more than 4.8 million references to publications in more than 60 languages and published in more than 140 countries, with over 2,000 geoscience organization subscribers worldwide, including academic institutions, government agencies, and industry.

- Added 181 titles to AGI's collection of **Open-Access Journals/Series**, including both new series as well as older series that recently have become open-access. Among these are 71 geological journals, 103 related-disciplines publications, five geological survey publications, and two meeting/conference abstracts/proceedings publications.

- Continued to provide the GeoRef database through five vendors — **EBSCO Publishing**, **Elsevier Engineering Village**, **GeoScienceWorld**, **Ovid Technologies**, and **ProQuest**. In 2025, **GeoRef with Full Text** was launched on the EBSCO platform.

- Added 190 new series to the **GeoRef Serials List**, which now exceeds 26,600 separate series. Of the new additions, 95 percent are open-access.

- Continued updates within AGI's 10 **Specialty Database Products**, which provide discoverability of the literature on a host of special topics.



Credits: GeoRef logo and web page: AGI



Credit: Gert Boers on Unsplash

GEOLOGICAL SURVEYS DATABASE UNLOCKS A CENTURY OF GEOSCIENCE

AGI's **Geological Surveys Database** has become a cornerstone of geoscience research, offering a one-stop destination for discovering and accessing tens of thousands of geological publications. What once might have required piecing together hard-to-find documents from scattered sources is now available through a single, searchable platform — and its impact grows year by year.

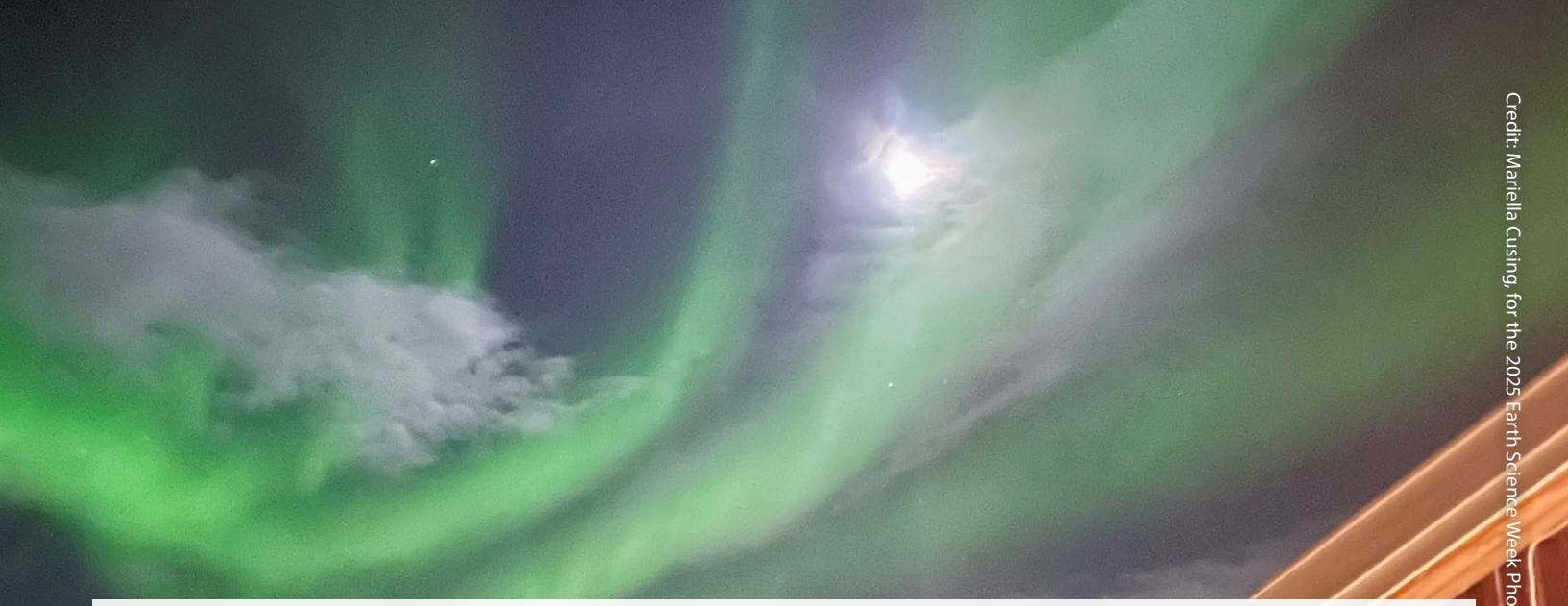
By late 2025, the database held more than 59,700 publications, with new additions coming in continually. Contributions vary by state, ranging to more than 4,500 from New Mexico. This expansive coverage ensures that users can uncover not just the latest research but also historic publications dating back to the earliest years of state surveys — material that might otherwise remain buried and inaccessible through a standard web search.

In 2024, the database drew around 31,000 page views, and in 2025 alone it saw traffic from 90 countries. While the majority of users come from within the United States, the global reach shows that this collection of U.S. geoscience work is helping to inform scientists and others worldwide.

A collaborative achievement of AGI and the state geological surveys, the database is designed to expand the visibility and use of geological survey publications. It also includes fact sheets from the **U.S. Geological Survey** (USGS), strengthening the value of the platform as a central hub of trusted geoscience information.

One of the most exciting features of the database is its powerful and flexible search system. Users can run a simple keyword query with the Basic Search, refine their queries with the Advanced Search by selecting multiple fields such as author, title, year, or publication type, or explore with the Geographic Search, which lets researchers zoom into specific regions on a map to discover publications tied to that area. Whether someone is looking for the latest survey on mineral resources, historical records of groundwater studies, or hazard assessments tied to a specific location, the database provides a straightforward path to the right information.

The value of the Geological Surveys Database goes beyond convenience for researchers. By driving more visitors to state geological survey websites and making their publications more visible, the database supports the missions of these surveys to share science that underpins public safety, economic development, and environmental stewardship. From engineers designing infrastructure, to emergency planners assessing natural hazards, to educators building classroom lessons, users across sectors rely on these resources to inform decisions that affect communities and industries alike.



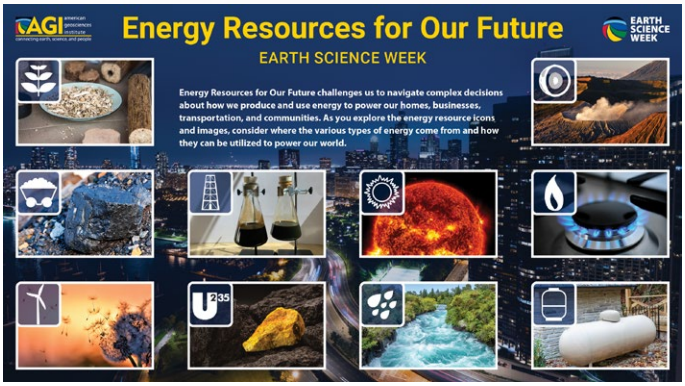
Credit: Mariella Cusing, for the 2025 Earth Science Week Photography Contest

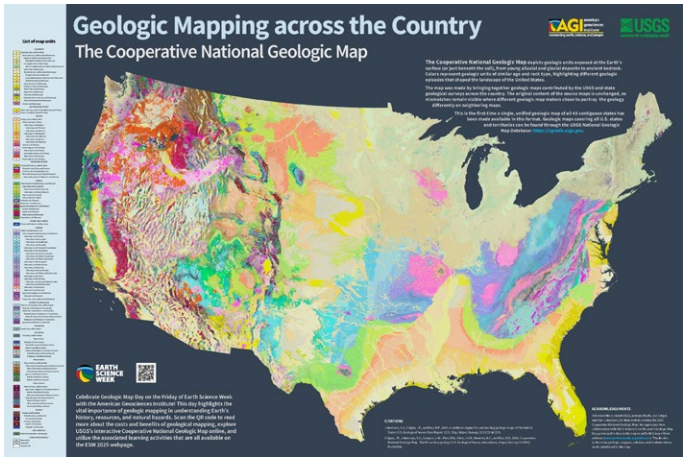
EARTH SCIENCE WEEK PROMOTES 'ENERGY RESOURCES FOR OUR FUTURE'

- Collaborated with dozens of partner organizations for the 28th annual Earth Science Week, celebrating the theme of "**Energy Resources for Our Future**" and exploring the many ways that geoscience can shape the planet's energy future. Educational materials, resources, and activities illuminated how geoscience can inform our decisions, deepen our understanding of their impacts, and help align our actions with our personal and societal values.

- Welcomed earth science students, educators, and enthusiasts to the **Earth Science Week 2025 Webinar Series**, which included four information-rich sessions on energy science education, geothermal energy, innovations in energy exploration, and geologic mapping and modeling. Speakers provided insights, expert discussions, and classroom resources showing how geoscience is meeting global energy challenges.

- Disseminated a wealth of original **educational resources** including the 2025 Earth Science Week Poster, the Geologic Map Day Poster, Activity Calendar, and many additional materials.





Credits: 2025 Earth Science Week and Geologic Map Day posters by AGI



Credit: Sophia Adao, for the 2025 Earth Science Week Photography Contest

BOLSTERING POLICY WITH GEOSCIENCE EXPERTISE

- Disseminated to national policy leaders the landmark six-part document series, **Critical Needs: Geosciences Meeting the Needs of the Nation**, crafted in cooperation with AGI federation members to provide guidance on urgent geoscience issues framed in the terms typically used by policymakers, such as the economy, infrastructure, innovation, national security, public safety, and diplomacy. The resource features exemplars of geoscience impact, case studies, relevant National Academy of Sciences reports, policy examples, and non-profit organizations providing non-partisan expertise.





- Named Christopher M. Sala, who earned his Ph.D. in Meteorology, Atmospheric Science, and Climate Science in May 2025 at The Pennsylvania State University, as the 2025–2026 recipient of the **William L. Fisher Congressional Geoscience Fellowship**, which has enabled Sala to work as a legislative fellow in the office of Senator Jacky Rosen, focusing on issues relating to energy, environment, and public lands.



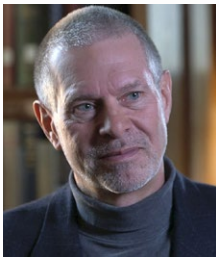
Credits: Critical Needs pages: AGI. Portrait courtesy of Christopher Sala.



Credit: Allison Lum, for the 2025 Earth Science Week Photography Contest

HONORING AND ADVANCING EXCELLENCE IN GEOSCIENCE

- Presented Dr. Robert Hazen, Executive Director of the Deep Carbon Observatory and Research Scientist at the Carnegie Institution for Science's Earth and Planets Laboratory, with the 2025 **Marcus Milling Legendary Geoscientist Medal**.



- Honored former AGI Director of Scholarly Information Sharon Tahirkheli as the recipient of the 2025 **William B. Heroy Jr. Award for Distinguished Service to AGI**.



- Recognized Dr. Haydon Mort, international geoscience communicator and founder and CEO of Geologize Ltd., based in London, England, as the 2025 recipient of the **AGI Award for Outstanding Contribution to the Public Understanding of the Geosciences**.



- Celebrated David W. Curry, an Earth and space science teacher at Newtown Middle School in Newtown, Pennsylvania, with the 2025 **Edward C. Roy Jr. Award for Excellence in K–8 Earth Science Teaching**.



Portrait credits: All portraits appear courtesy of pictured individuals.

COMMUNICATION TRAINING CONTINUES BENEFITING GEOSCIENTISTS

In 2025 AGI continued delivering on a promise it first made in April 2024. U.S.-based members of AGI Member Societies continued to receive free access to world-class geoscience communication training, thanks to generous support from the **American Association of Petroleum Geologists Foundation** and the **Society of Exploration Geophysicists**. The response? A remarkable 1,526 enrollments between October 2024 and September 2025.

Globally endorsed by leading geoscience organizations, the acclaimed **Practical Geocommunication** course, developed by **Geologize LTD**, remained available at no cost to most AGI affiliates' members. The initiative highlights AGI's unwavering commitment to empowering geoscientists with one of today's most essential professional skills: the ability to clearly communicate complex science to the public, policymakers, and industry leaders.

Participants dive into a dynamic learning experience featuring interactive lessons, thought-provoking quizzes, and hands-on assignments. The course is led by expert instructor Dr. Haydon Mort, whose direct engagement in discussion forums provides personalized feedback and meaningful dialogue that brings the material to life.

Valued at $400 per participant, the course offers exceptional professional value, delivering nine hours of Continuing Professional Development (CPD) credit and a certificate upon completion. More importantly, it equips geoscientists with practical tools to amplify their impact.

As AGI Executive Director Dr. Jonathan Arthur noted upon announcing the program, in a world facing urgent challenges — mineral and water resources, climate change, energy demands, and geohazards, to name just a few — clear, compelling science communication is more critical than ever. This initiative ensures geoscience professionals are ready not just to understand the issues, but to lead the conversation.

NEW INTERNATIONAL ASSOCIATES

The AGI federation of geoscience societies welcomed two members as **International Associates**, the first being the **International Medical Geology Association** (IMGA). The association brings together geoscientists, environmental scientists, toxicologists, epidemiologists, and medical specialists to characterize the properties of geological processes and agents, the dispersal of geological material, and their effects on human populations.

In addition, the **International Raw Materials Observatory** (INTRAW) is a non-profit international association dedicated to fostering global collaboration in mineral raw materials' research and innovation. INTRAW provides information on best international practices, economic and policy research, and advanced data analytics and scenario studies to inform raw materials strategies for policymakers, industry, and the public and support sustainable development within the raw materials sector.

Credits: Logos courtesy of featured organizations

UNAUDITED FINANCIAL STATEMENTS

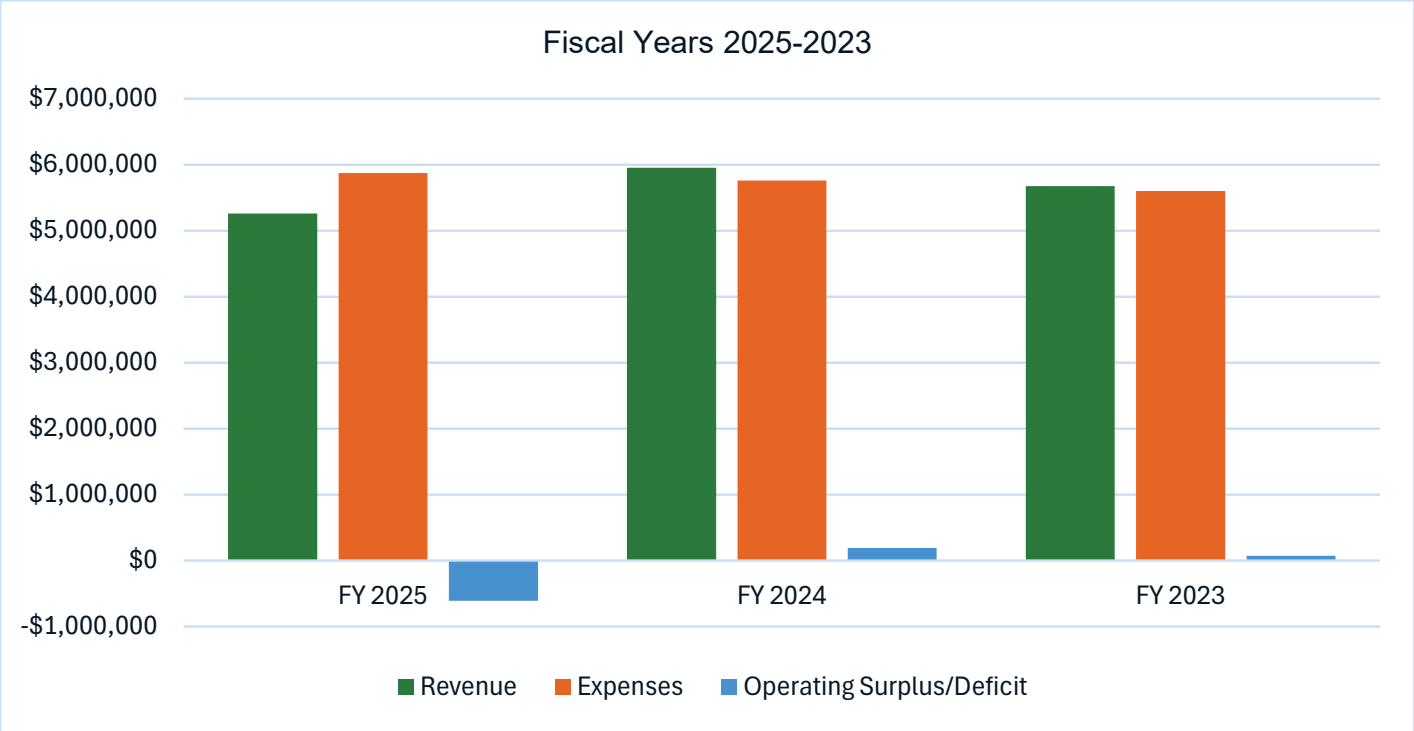
American Geosciences Institute, Fiscal Year 2025 (Oct. 2024–Sept. 2025) Unaudited*

ASSETS	2025	2024	2023
Current Assets			
Cash cash equivalents, and investments	6,973,035	6,901,622	7,426,815
Accounts receivable	609,351	1,028,062	613,377
Prepaid expenses and advances	38,580	26,035	58,343
Inventory of publications	4,410	4,410	6,990
Total current assets	7,625,377	7,960,129	8,105,525
Property and Equipment			
Building and improvements	2,033,349	2,167,160	2,300,971
Furniture and equipment	0	93,190	204,232
Land	525,032	525,031	525,032
Net property and equipment	2,558,381	2,785,381	3,030,235
Other Assets			
Trademark	108,540	108,540	108,540
GeoRef database	4,500,000	4,500,000	4,500,000
Mineral displays	13,363	13,363	13,363
Total other assets	4,621,903	4,621,903	4,621,903
Total assets	**14,805,661**	**15,367,413**	**15,757,663**

LIABILITIES AND NET ASSETS	2025	2024	2023
Liabilities			
Accounts payable and accrued expenses	523,232	431,451	455,488
Deferred revenue	30,413		
Long-term loans	658,850	731,345	1,291,606
Total liabilities	1,212,495	1,162,796	1,747,094
Net Assets			
Unrestricted – fund balance	8,488,792	8,952,650	9,294,796
Temporarily restricted	2,373,814	2,521,407	1,985,213
Permanently restricted	2,730,560	2,730,560	2,730,560
Total net assets	13,593,166	14,204,617	14,010,569
Total liabilities and net assets	**14,805,661**	**15,367,413**	**15,757,663**

* Audited financial statements will be provided online when they become available.

Chart: AGI Comparative Statement of Activities



Details for Statement of Activities chart:

	FY 2025	FY 2024	FY 2023
Revenue	$5,261,844	$5,953,217	$5,674,996
Expenses	$5,873,295	$5,759,168	$5,603,575
Operating Surplus/(Deficit)	$(611,451)	$194,049	$71,421

*Reflects gifted funds as a result of the dissolution of the AGI Foundation.

SUPPORT THE GEOSCIENCES

Be a champion for AGI partnerships that enrich geoscience education, workforce, policy, scholarly information, recognition of excellence, and related efforts. Join us in this vital work. Please give at https://www.americangeosciences.org/donate.



Earth system artwork ©AGI/Brenna Tobler

2024–2025 BOARD OF DIRECTORS



Anna C. Shaughnessy
President
Anna C. Shaughnessy received her BSc from the University of Gothenburg, Sweden and her MSc from Massachusetts Institute of Technology (MIT). She started her career as an interpreter geophysicist with Mobil Oil and has worked in the energy industry for thirty years, primarily in exploration, technology development and deployment. During her energy industry career, she has held leadership roles at Mobil, Saudi Aramco, Texaco and Kerr-McGee. Shaughnessy transferred to the academic sector in 2011 and became the Executive Director of the Earth Resources Laboratory (ERL), at MIT. She retired in 2018.



Claudia Mora
President-Elect
Claudia Mora serves as Dean of the Jackson School of Geosciences at the University of Texas at Austin. Previously, she held positions as the Deputy Division Leader (Chemistry) and Group Leader (Earth and Environmental Sciences) at Los Alamos National Laboratory (2007–2020) and as faculty and Department Head (Earth and Planetary Sciences) at the University of Tennessee-Knoxville. Mora has served in many leadership roles, as past president of the Geological Society of America (GSA), councilor for the International Union of Geological Sciences, member of two U.S. National Committees, the National Science Foundation GEO Advisory Board, National Academy of Sciences Boards (BESR and DELS), and the Governance Advisory Committee of the Science Foundation of Ireland Research Centre in Applied Geosciences.



Keri A. Nutter
Past-President
Keri A. Nutter is a Geoscience Manager at DOWL, a firm specializing in planning, surveying, engineering, environmental, and related services. A Certified Professional Geologist, Nutter is a firm owner and manager of a team of engineers and geologists. Nutter has served on the American Institute of Professional Geologists' National Executive Committee since 2014, progressing from Advisory Board Representative to President. She previously served as Secretary on the AGI Executive Committee as well as on the dues restructuring committee and the Wallace Scholarship committee. Since earning her Bachelor's in Geology at Washington State University in 2004, Nutter has gained over 16 years of experience in service and leadership for professional groups.



Douglas Bartlett
Treasurer
Doug Bartlett is principal hydrogeologist and co-founder of Clear Creek Associates, a subsidiary of Geo-Logic Associates. Bartlett has more than 45 years of experience as a geologist and hydrogeologist with diverse experience in groundwater computer modeling, hydrogeologic investigations, and mining-related hydrogeologic services. He is also former National President and Treasurer of the American Institute of Professional Geologists.



Maria Angela Capello
Secretary
Maria Angela Capello is a leader in the energy sector and an advocate of sustainability and geosciences. She is President of Red Tree Consulting LLC and Co-Chair of United Nations Economic Commission for Europe

Portrait credits: Keri Nutter: © Scott Slone. All portraits appear courtesy of pictured individuals.

Women in Resource Management and has advanced leading roles in Kuwait Oil Company, Halliburton, and Petróleos de Venezuela (PDVSA). She is a member of the GEO National Science Foundation Advisory Council and is the Chair of the Management Technical Section of the Society of Petroleum Engineers International, and the Sustainability Committee of the Society of Exploration Geophysicists. Her work has been recognized by the Italian Government through the "Star of Italy" honor (knighthood), and by UNESCO endorsing her work leading "Geosciences in Action — Advancing Sustainable Development."



Shirley Jackson
Member at Large
Shirley Jackson is a faculty member at York College/City University of New York and College of Staten Island. She holdes degrees in Geology and Sustainability and serves on the Executive Board of Directors of the Association for Women Geoscientists. Jackson is a champion for obtaining and retaining underutilized talent for the geosciences and mentors in the On to The Future program through the Geological Society of America.



Sandra J. Carlson, Ph.D.
Member at Large
Sandy Carlson is an Emeritus Professor, following 36 years in the Department of Earth and Planetary Sciences, University of California, Davis. She has served in leadership roles with the Paleontological Society, constituting that society's six-year cycle as President Elect, President, and Past President, and is a Centennial Fellow of the Paleontological Society. She received the Association for Women Geoscientists Encourage Award in 2016 and the Gilbert Harris Award from the Paleontological Research Institution in 2019.



Dawn Garcia
Member at Large
Dawn Garcia is a hydrogeologist and a licensed professional geologist with over 35 years of experience in environmental permitting and compliance, mine life cycle planning, and hydrologic projects. She has worked in characterization, remediation, and reclamation projects at sites ranging from mineral development to operations to closure. Garcia has served as the Geologist Member of the Arizona Board of Technical Registration by appointment of the Governor. She has been a member of the American Institute of Professional Geologists for over 30 years and received the Martin Van Couvering Memorial Award for distinguished service to the profession of geology. She served as 2023 President of the organization. Dawn is a Senior Associate with Stantec in Tucson, Arizona.



Ex Officio member:
Jonathan D. Arthur, Ph.D.
Executive Director
Jonathan Arthur, P.G., served as Director of the Florida Geological Survey and State Geologist from 2009 to 2021. His research in aquifer vulnerability and metals mobilization during artificial recharge has informed environmental management and policy. He is a strong advocate for geoscientists to engage with the public and policy makers, emphasizing the importance of making earth science research accessible and relevant to broad audiences. Arthur is a Fellow of the Geological Society of America, and recipient of national awards for public and distinguished service. He has given congressional testimonies, numerous invited presentations, keynotes, and international workshops, and has served in several leadership roles in the geoscience community. He served two terms on National Academies Water Science and Technology Board, committees related to aquifer system dynamics and habitat conservation, and as liaison to the U.S. National Committee for Geological Sciences. He earned his Ph.D. in geology from Florida State University.

Portrait credits: Jonathan D. Arthur: AGI/Geoff Camphire. All portraits appear courtesy of pictured individuals.

2025 FEDERATION OF LEADING GEOSCIENCE ORGANIZATIONS

AGI Member Societies

AASP - The Palynological Society
American Association of Geographers
American Association of Petroleum Geologists
American Geophysical Union
American Institute of Hydrology
American Institute of Professional Geologists
American Rock Mechanics Association
Association for Women Geoscientists
Association of American State Geologists
Association of Earth Science Editors
Association of Environmental & Engineering Geologists
Clay Minerals Society
Commission on Stratigraphic Nomenclature of the Americas
Council on Undergraduate Research
Environmental and Engineering Geophysical Society
Geo-Institute of the American Society of Civil Engineers
Geochemical Society
Geological Association of Canada
The Geological Society of America
Geological Society of London
Geoscience Information Society
History of Earth Sciences Society
International Association for Geoscience Diversity
International Association of Hydrogeologists/ U.S. National Chapter
Karst Waters Institute
Mineralogical Society of America
Mineralogical Society of the United Kingdom and Ireland
National Association of Black Geoscientists
National Association of Geoscience Teachers
National Association of State Boards of Geology
National Cave and Karst Research Institute
National Earth Science Teachers Association
National Speleological Society
Paleontological Research Institution
Paleontological Society
Petroleum History Institute
Seismological Society of America
SEPM (Society for Sedimentary Geology)
Society for Mining, Metallurgy & Exploration
Society of Economic Geologists
Society of Exploration Geophysicists
Society of Mineral Museum Professionals
Society of Vertebrate Paleontology
Soil Science Society of America

AGI International Associates

Geological Society of Africa (GSAf)
International Association for Promoting Geoethics (IAPG)
International Medical Geology Association
International Raw Materials Observatory (INTRAW)
PMUG (Japanese Society of Geo-Pollution Science, Medical Geology and Urban Geology)
SGEM World Science (SWS) Scholarly Society

AGI Regional Associates

Geological Society of Connecticut
Geological Society of Washington
Western Water Assessment

AGI Trade Associate

National Groundwater Association

AGI Liaison Organizations

Australian Institute of Geoscientists
The National Academies - Board on Earth Sciences and Resources
Canadian Federation of Earth Sciences
Center for Ocean Leadership
Earth Science Information Partners
Energistics
GeoScienceWorld
International Union of Geological Sciences
U.S. Dept. of Energy (Geothermal Technologies Office)
U.S. Geological Survey
University Consortium of Geographic Information Science



Credit: Kiersten Tang, for the 2025 Earth Science Week Photography Contest



Earth Science Week 2025 Visual Arts Contest entry by Charles Yang.

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