

# UNIFYING THE GEOSCIENCES

## AMERICAN GEOSCIENCES INSTITUTE ANNUAL REPORT, FISCAL YEAR 2019



We know that the geoscience community's future successes are built on our long and rewarding history of working together, and we thank our partners, collaborators, and member societies who have made so many important achievements of the American Geosciences Institute (AGI) possible. Together we have represented geoscience professionals, promoted their common aims, and advanced our community for over 70 years.

In the past fiscal year, from October 2018 through September 2019, we have been inspired by the generous collaboration of our partners:

- With the **American Institute of Professional Geologists** and the **National Association of State Boards of Geology**, we enabled a Geoscience Professional Licensure Fellow to generate groundbreaking reporting on the status of state licensure requirements.

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**Carolyn Olson**  
AGI President



**Sharon Tahirkheli**  
AGI Interim  
Executive Director

### GIVING SPOTLIGHT



"The world needs geoscientists more than ever before as we work to meet global energy demand, develop resilient communities, reduce environmental impacts, and grow public awareness about our planet. AGI plays a critical role through its many programs designed to educate, inspire, and strengthen the profession."

– *David Curtiss,*  
*Executive Director, American Association of Petroleum Geologists*



"For over 30 years, AGI has been an important resource to me as an educator and researcher through GeoRef, the Directory of Geoscience Departments, materials supporting Earth Science Week, the Geoscience Workforce reports, and other initiatives. No other organization provides these important services."

– *Diane Smith,*  
*Professor of Geosciences, Trinity University*



"AGI fills a unique and vital role in the geosciences. There is no other academic institution, government agency, or industry professional association that looks after the interests of the geosciences as a whole, from education, to professional practice, to critical issues. The work of AGI will help ensure that geoscience professionals continue to provide the science required to meet the challenges of our ever-changing world."

– *Chandler Wilhelm,*  
*AGI Foundation Trustee*

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- With the **American Geophysical Union**, we offered 10 popular Earth and Space Sciences Heads and Chairs webinars on topics like “Implementing Effective Field Safety Policies.”
- In a new partnership model, AGI exhibited at the National Science Teaching Association conference jointly with the **U.S. Geological Survey** and the **American Meteorological Society**.
- With the **U.S. Permafrost Association**, we expanded the Permafrost Monthly Alert e-publication to include topics such as education and carbon release.
- We made improvements to our Physical Geology Laboratory Manual, including a segment on systems thinking and the development of a new lab on climate change with the help of the **National Association of Geoscience Teachers**.

- With **National Science Foundation** support, we kicked off a research project in several school systems called “Streams of Data” that will investigate how grade school students make sense of large, professionally collected data sets.
- With the **Japan Geoscience Union**, we introduced our Earth Science Week public awareness campaign to Japan, the newest addition to the list of dozens of nations that actively participate each year.

And that is to name but a few on our large list of collaborators. None of the achievements listed in this report are AGI’s alone. We happily enjoy a mutually supportive relationship with a diverse cast of partners across the geoscience community.

2019 was a pivotal year for AGI. We faced financial challenges head-on. We streamlined our business practices. We pared down some programs and strengthened

others. And through it all, we continued to serve our stakeholders in the geoscience community.

We thank you for supporting the AGI mission to serve the geosciences on behalf of our member societies representing over a quarter-million geoscientists worldwide. Moreover, we look forward to moving ahead with that work in the coming year, when we expect to roll out even more high-impact programs, products, and services benefiting the geosciences.

Working together, the organizations that comprise the geoscience community have achieved great things in the past. We have exciting initiatives underway today, and we have good reason to anticipate a brilliant future. 

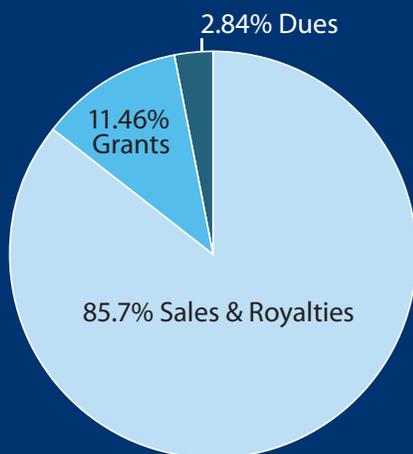
**Carolyn Olson**  
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AGI Interim Executive Director

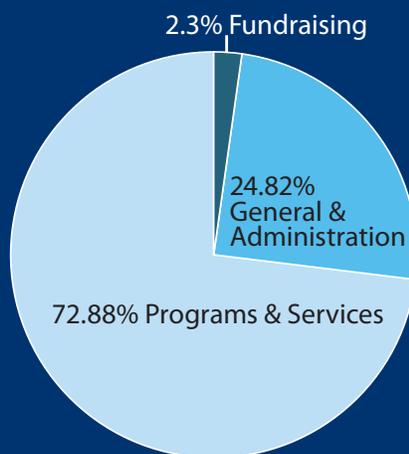
## FINANCIALS

American Geosciences Institute, Fiscal Year 2019 (Oct 2018–Sept 2019)

FY 2019 Operating Revenue



FY 2019 Operating Expense

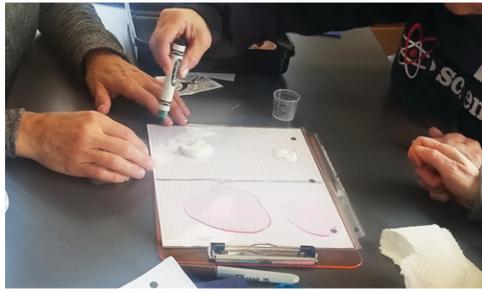


## SUPPORT THE GEOSCIENCES

Be a champion for AGI partnerships that enrich geoscience education, workforce, policy, information services, and recognition of excellence. Join us in this vital work. Please give at

<https://agi.networkforgood.com>

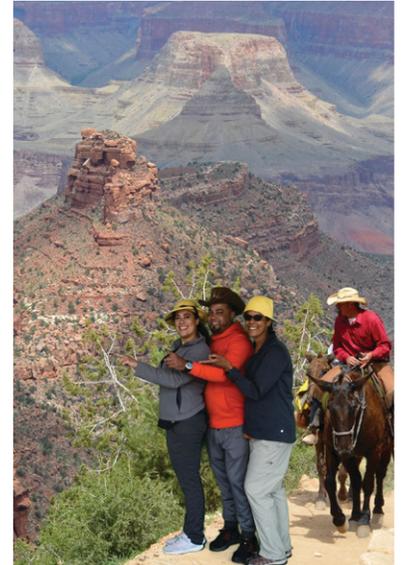
For more information, please contact AGI Associate Director of Communications Geoff Camphire at [gac@americangeosciences.org](mailto:gac@americangeosciences.org).



# GEOSCIENCE 2019 TOP TEN

1. AGI bolstered **Earth science education** with its Teacher Leadership Academy program, an interactive National Fossil Day experience at the Grand Canyon, and recognition of young geoscientists at the International Science and Engineering Fair in partnership with the Geological Society of America.
2. Strengthening the **geoscience workforce**, AGI published an improved Laboratory Manual in Physical Geology and a new Status of the Geoscience Workforce Report. AGI is actively engaged in undergraduate and graduate education reforms sponsored by the National Science Foundation.
3. AGI forged a partnership with Nautilus, a respected science magazine, to bring geoscience news to new audiences. The online **Nautilus EARTH Channel** focuses on geoscientists' concerns, while the print magazine increasingly features geoscience content.
4. In collaboration with Nautilus, AGI promoted geoscience through IF/THEN®, an initiative of Lyda Hill Philanthropies that encourages women's participation in STEM fields. AGI profiled **IF/THEN® Ambassadors** and created corresponding educational materials.

*Top Ten continued on page 4*



## Status of the Geoscience Workforce 2018

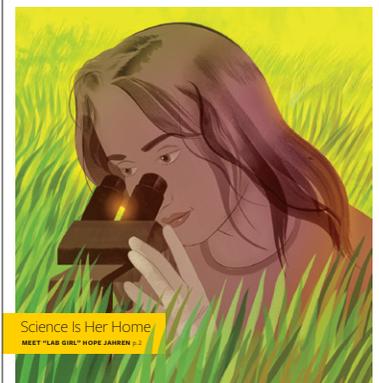


Carolyn Wilson  
american  
geosciences  
institute  
connecting earth, science, and people

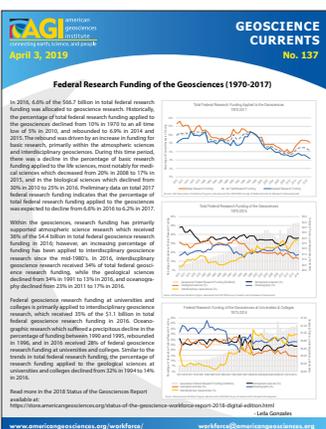


## NAUTILUS

A SPECIAL EDITION POWERED BY THE AMERICAN GEOSCIENCES INSTITUTE AND  
IF/THEN, AN INITIATIVE OF LYDA HILL PHILANTHROPIES



EARTH SCIENCE WEEK 2019 Science Connected NAUTILUS



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5. **Earth Science Week** reached more than 50 million people with its “Geoscience Is for Everyone” theme, providing information, activities, and materials offered in cooperation with longtime partners as well as new ones, such as IF/THEN® and the Geothermal Energy Council.
6. AGI’s **Center for Geoscience & Society** boosted awareness with Education GeoSource, the most comprehensive collection of Earth science educational resources online. The site offers links to activities, standards, videos, assessment, funding, awards, and more.
7. **Professional development courses** addressed numerous topics. Geoscience Online Learning Initiative (GOLI) webinars and on-demand courses covered professional licensure and writing skills, for example, while NGSS-Earth System Science webinars helped Earth science teachers meet high standards.
8. **Geoscience Currents**, an online information channel, expanded its coverage of new data on geoscience and its interface with society. The publication encompasses issues significant to geoscientists, from broad topics like minerals and energy to narrower ones such as career paths and salaries.
9. AGI **policy initiatives** included the 11th annual Geoscience Congressional Visits Day, a new Fisher Congressional Geoscience Fellow, up-to-date “Geoscience in Your State” fact sheets, and Critical Issues resources on topics such as energy, climate, and hazards.
10. Providing access to more **scholarly information** than ever, GeoRef added 101,000 references to its 4.1 million-reference database. Staff members also began updating The Glossary of Geoscience, featuring more inclusive coverage of related topics beyond geology.



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