

# GSA Annual Report FY 2017

GSA Annual Report FY 2017



THE GEOLOGICAL SOCIETY  
OF AMERICA®

SCIENCE ■ STEWARDSHIP ■ SERVICE





Black Canyon of Gunnison, Colorado, USA.

**GSA Vision:** To be the premier geological society supporting the global community in scientific discovery, communication, and application of geoscience knowledge.

**GSA Mission:** To advance geoscience research and discovery, service to society, stewardship of Earth, and the geosciences profession.

*The Geological Society of America (GSA) is a global professional society with a membership of more than 25,000 individuals in 110 countries. GSA provides access to elements that are essential to the professional growth of earth scientists at all levels of expertise and from all sectors: academic, government, business, and industry. The Society unites thousands of earth scientists from every corner of the globe in a common purpose to study the mysteries of our planet (and beyond) and share scientific findings. GSA is supported, in part, by funds donated to and raised by the GSA Foundation.*

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# Letter from the GSA President

Rapid changes in our communities, and the global reach of technology, affect the practice of geoscience, creating new opportunities—and challenges—for every professional society. Two of the fundamental services that GSA provides to its members and the geoscience community are its suite of high-quality scientific publications and a variety of meetings and field conferences. Over the past year, management of these services dominated the attention of GSA leadership. We seek to proactively take advantage of new opportunities benefitting members, but also to buffer the Society from the worst impacts of these changes.

The state of GSA publications is good. *Geology* has been the Web of Science's #1 ranked "geology" journal for 11 years in a row. It publishes timely, innovative, and provocative articles relevant to an international audience, representing research from all fields of the geosciences. *Geological Society of America Bulletin*, published continuously since 1890, is a leading international journal for scholarly research in all branches of the earth sciences. In 2015, GSA Council announced its commitment to transition GSA journals to full open access, beginning in 2017 with *Geology*. The motivation for this decision was largely aspirational: to lead the geoscience community in this new model of scholarly publication and extend the reach and impact of scientific results by making them accessible to the global research community, the public, and policymakers. This plan was delayed in 2016 to allow Council to fully understand the positive and negative impacts of this decision on our members and authors. Over the past year, Council made an internal review of publication options and business changes that would support adoption of open access. We brought in experts to assess our publication model, survey our authors, share research on factors favoring successful transition to open access, and to provide us with informed input on how GSA could successfully move toward implementation of open access. After thorough discussion, Council voted for important changes to GSA's phased transition to open access. We will transition our newer journals, *Lithosphere* and *Geosphere*, to open access in 2018; transition of *GSA Bulletin* and *Geology* is postponed.

Last year's work has shown us that the open access movement is progressing, and we continue our commitment to this exciting possibility. But, implementation of full open access requires changes across commercial, nonprofit, and university business models that are not yet well synced, as well as adaptation and changes in community perception and experience. We believe the transition to open access poses great opportunities for *Lithosphere* and *Geosphere* to reach new audiences and to develop and evolve in perspective and impact. This is also an opportunity for GSA to educate itself on the management of open access journals, not only for the success of the journal and its authors, but also for the benefit of the Society's membership. We look forward to beginning GSA's move to journal open access and welcome your input and feedback as we begin this initial step.

This year, the Programmatic Overview Committee reviewed the GSA Meetings and Events Department and found that our skilled and dedicated headquarters staff provide a diverse suite of offerings to GSA members. Their successful efforts are especially notable given the increased complexity of hosting meetings, including: the incorporation of GSA Codes of Conduct for



Claudia I. Mora, GSA President



2016 AGI Medal in memory of Ian Campbell given to Berry H. "Nick" Tew, Jr. by Claudia I. Mora, GSA president.

Events and Field Safety; burgeoning options for technology affecting presentations and meeting communications, including mobile apps and social media; providing services to enable full access by young families and a diverse community; and keeping the exhibit hall a site of buzz and interaction. Across the globe, professional societies are experimenting with alternative meeting models and presentation formats. We find that GSA Members continue to seek the intellectual stimulation of face-to-face dialogue and information exchange. The emphasis of GSA Meetings and Events is member engagement, both formal and informal. Thus, GSA Meetings and Events are distinguished by the breadth of opportunities to learn and interact, with a unique program of field trips, short courses, a large number of member-proposed symposia and theme sessions, and diverse settings for mentoring, fellowship, and face-to-face engagement. Every year, the Annual Meeting and Section Meetings serve more than 10,000 people—almost one-half of GSA membership! *We are a society of engagement* and the broad offerings of this department serve a truly fundamental role in the nature and success of GSA.

*We are also a society of inclusion.* In fulfilling its goals and mission, and in keeping with its Diversity Position Statement, GSA promotes, provides, expects, and endorses a professional and respectful atmosphere and values a diversity of views and opinions. The

new *GSA Events Code of Conduct* was adopted by Council at the 2016 Annual Meeting in Denver. Over the winter, GSA staff prepared an implementation plan and standard operating procedures for staff and leadership to put the code into action. The code was rolled out at the Section Meetings using the slogan "GSA Meetings RISE to the Top" (Respectful Inclusive Scientific Events), with informational material conspicuously available and displayed, and discussions with the management boards. All participants at GSA events are required to agree to abide by the new Code of Conduct.

One area where we see opportunities for improvement is in how we identify and run our Penrose Conferences and Thompson Field Forums. We strongly believe that the name Penrose should be associated with the very best of GSA and of our scientific role and impact. How should each Penrose Conference be organized to truly meet the intent of being GSA's *premier* conference? How can these conferences attract the interest and attention they deserve? An ad hoc committee to refresh and raise the visibility of Penrose Conferences/Thompson Field Forums is now in progress.

Beyond communication of science through journals and conferences, GSA accomplishes its mission through its position statements and engagement with the public and policymakers. GSA's Director for Geoscience Policy, Kasey White, and a GSA Science Policy

Fellow, work closely with representatives from other geoscience and science societies to provide information and input to federal policymakers in Washington, D.C. We sponsor the GSA-USGS Congressional Science Fellow to work directly on the staff of a Member of Congress or a congressional committee. Many GSA Sections and Divisions supported students to attend Geoscience Congressional Visits Day, joining with students from other geoscience societies to walk the halls of Congress and directly communicate the importance of geoscience and federal funding for geoscience research and education. To enhance global geoscience communications, GSA supported a cohort of 30 graduate students and early career professionals to attend the International Geological Congress in Cape Town, South Africa, on GSA travel grants, and the GSA President and Executive Director attended the International Union of Geological Sciences Congress as members of the U.S. delegation. I strongly encourage all members to go to our website (<http://www.geosociety.org>) to learn more about—and consider engaging in—the many activities of *your* Geological Society of America!

*Claudia I. Mora*

Claudia I. Mora, GSA President



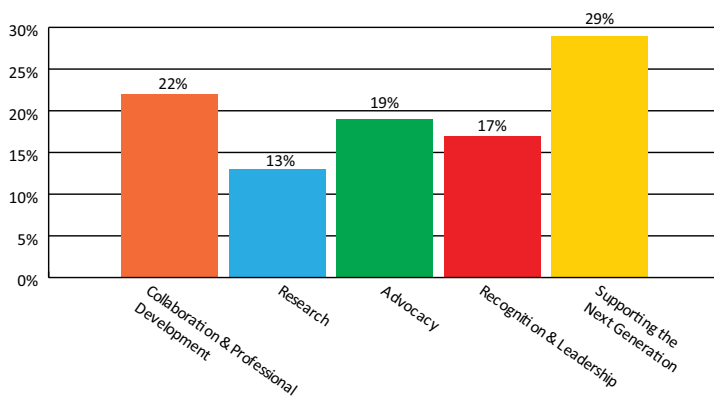
# Letter from the GSA Executive Director



Vicki S. McConnell, Executive Director

Dear GSA Members, Leaders, and Staff,

Things are changing at GSA in response to the changing world and expectations. I want to emphasize that any changes we make are with the genuine objective of making GSA more useful to our members and to increase the relevance of geosciences in the world. That keeps us on track with our mission and gives all of you the biggest bang for your buck. Speaking of that, here is a visual of how your dues and contributions are parsed out to support GSA and GSA programs:



GSA finished the fiscal year in good shape financially and well within the FY17 budget.

We have been looking at GSA's organizational and physical structure. On the organizational side, an ad hoc committee has been working with GSA Divisions and Interdisciplinary Interest Groups (IIGs) to review their activities, missions and goals, membership and awards, and whether we need both entities. Are you a member of a Division or IIG? If so, why, and if not, why? We at GSA Headquarters would like to know. That said, we welcomed a new IIG this year, the Continental Scientific Drilling IIG. In regard to our physical structure, we have an ad hoc committee looking at the options for GSA's Boulder Headquarters now and into the future. The headquarters building is approaching 50 years old, maintenance is increasing every year, and if we remain here, we really should revamp the interior to be more efficient for staff and usage. Or should we sell a hot piece of real estate in Colorado and move to a more modest location? What makes sense now, and where do we want GSA to be physically and organizationally in 10, 20, or 30 years? How do you feel about GSA's location? What could we do to improve it?

GSA Council put a big challenge in front of GSA staff at the 2016 Annual Meeting in Denver when they approved a GSA Code of Conduct for Events. We were asked to develop an implementation plan and complaint process by early December when the 2017 GSA Section Meeting announcements went live. Now when you register for a GSA-sponsored event, you are notified that your registration implies you have agreed to abide by the Code of Conduct, and you are subject to consequences if you do not. GSA staff did a superb job of putting all the pieces together and we now have the RISE campaign (Respectful Inclusive Scientific Events). All GSA events operate under that banner. We want anyone that participates in a GSA event to feel they are safe and included in all activities, and to know they can do something about feeling unsafe.

As you read through the annual report, you will learn more details about the programs we manage to assist you, your company, your students, and your many colleagues with professional growth and integrity. We are excited to announce we will be partnering with the National Science Foundation again for providing funds for the Graduate Student Research Grants Program. This partnership has lasted for more than three decades and has assisted thousands of GSA members with their graduate research, maybe even you!



President-elect Isabel P. Montañez and GSA executive director Vicki S. McConnell.

We had an excellent meeting in Denver with some spectacular field trips offered in part because we met in September. Having the meeting a month early changed up schedules and attendees, but it allowed everyone that wanted to be in their home state to vote. We received about equal yeas and nays on hosting future meetings in September.

I don't want to finish on a negative note, but I do have to share that GSA's membership is down by several percent. We attribute some of the member reduction to changes in our GeoCorps America program as student applicants to the program no longer have to be a GSA Member. We have also noted a drop in our professional members in the retirement age category. Being a GSA Member provides many benefits and opportunities, and I hope you will continue your membership and participation throughout your career and beyond.

Please join me in expressing appreciation to the GSA staff who work tirelessly to provide all of you with the best services and benefits possible.

Vicki S. McConnell, *Executive Director*

# GSA Fiscal Year 2017 Officers

Term: July 2016–June 2017



**PRESIDENT**  
**Claudia I. Mora**  
Los Alamos National Laboratory  
Los Alamos, New Mexico, USA



**PRESIDENT-ELECT**  
**Isabel P. Montañez**  
The University of California at Davis  
Davis, California, USA



**TREASURER**  
**Bruce R. Clark**  
The Leighton Group Inc.  
Irvine, California, USA



**PAST PRESIDENT**  
**Jonathan G. Price**  
Jonathan G. Price LLC  
Reno, Nevada, USA



# GSA Fiscal Year 2017 Councilors

Term: July 2013–June 2017



**Elizabeth J. Catlos**  
The University of Texas at Austin  
Austin, Texas, USA



**John J. Clague**  
Simon Fraser University  
Burnaby, British Columbia, Canada



**Neil Fishman**  
Hess Corporation  
Houston, Texas, USA

Term: July 2014–June 2018



**Timothy J. Bralower**  
Pennsylvania State University  
University Park, Pennsylvania, USA



**Anke Friedrich**  
Ludwig Maximilian University of Munich  
München, Germany



**Stephen G. Pollock**  
University of Southern Maine  
Gorham, Maine, USA

Term: July 2015–June 2019



**Frank J. Pazzaglia**  
Lehigh University  
Bethlehem, Pennsylvania, USA



**Christopher "Chuck" Bailey**  
College of William & Mary  
Williamsburg, Virginia, USA



**Mary J. Kraus**  
University of Colorado  
Boulder, Colorado, USA

Term: July 2016–June 2020



**F. Edwin "Ed" Harvey**  
Hydrogeologist  
Fort Collins, Colorado, USA



**Mark Little**  
University of North Carolina–Chapel Hill  
Chapel Hill, North Carolina, USA



**Marjorie A. Chan**  
University of Utah  
Salt Lake City, Utah, USA

## 2017–2018 STUDENT ADVISORY COUNCIL CHAIR



**Madelyn Percy**  
University of North Carolina  
Chapel Hill, North Carolina, USA

# GSA Sections and Divisions

Connecting Members in Countless Ways



The Society's elected officers provide overall governance of GSA, but members have several options for connecting with subgroups of colleagues for science and service opportunities.

## GSA SECTIONS

Six geographic Sections of GSA also have their own governance boards. Sections organize scientific meetings in the Northeastern, North-Central, Southeastern, South-Central, Rocky Mountain, and Cordilleran regions of North America. These smaller meetings attract many geoscience students and provide outstanding learning and networking opportunities closer to home.

## GSA DIVISIONS

Members have access to any of GSA's 18 Divisions, which are organized by scientific interests.

Each Division has its own management board, officers, bylaws, committees, and website. Divisions generally meet at the GSA Annual Meeting, and most have their own newsletters, which are published at various times throughout the year. Divisions include:

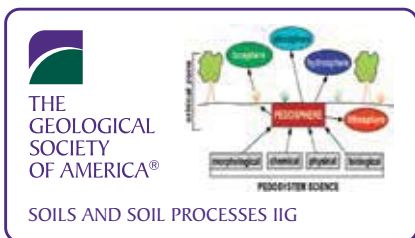
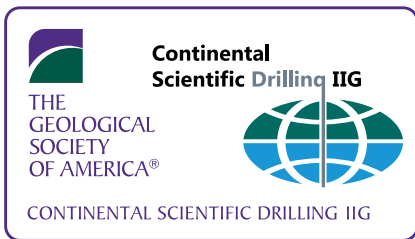
- Archaeological Geology
- Energy Geology
- Environmental and Engineering Geology
- Geobiology and Geomicrobiology
- Geoinformatics
- Geology and Health
- Geology and Society
- Geophysics
- Geoscience Education
- History and Philosophy of Geology
- Hydrogeology
- Karst
- Limnogeology
- Mineralogy, Geochemistry, Petrology, and Volcanology
- Planetary Geology
- Quaternary Geology and Geomorphology
- Sedimentary Geology
- Structural Geology and Tectonics.

Divisions facilitate communication and education among scientists within their ranks and also cross-disciplinary activity throughout the Society. They are largely responsible for developing the technical program for the GSA annual meeting; they facilitate student participation in meetings, help fund student research, and recognize the best and brightest through Division awards.

### **GSA is pleased to recognize the following Divisions that mark milestone anniversaries this year:**

- The Environmental and Engineering Geology Division is 70 years old. Established in 1947, it advances the ability of geologists to identify, characterize, and mitigate adverse geological and environmental conditions and hazards affecting human safety and the built environment.
- The Archaeological Geology Division is 40 years old. Established in 1977, it provides a forum for the presentation and discussion of papers on archaeological geology in order to stimulate and promote research and teaching in this field.
- The Limnogeology Division is 15 years old. Established in 2002, it encourages research on both ancient and modern lakes around the world, the collaboration of scientists from all disciplines on lake research, and the fostering of student research and careers in lake studies.





## GSA INTERDISCIPLINARY INTEREST GROUPS (IIGs)

Having been approached by members interested in forming “Interdisciplinary Interest Groups” that focus on scientific fields that cut across several GSA specialty science Divisions, Council responded with this informal structure that assists members in organizing topical science groups under the auspices of GSA. IIGs provide a discussion forum for scientific interests not currently well served through the existing GSA Division structure.

**To date there are three such IIGs:**

- Continental Scientific Drilling
- International
- Soils & Soil Processes.

**Their goals are to:**

1. Build interdisciplinary interactions across specific disciplines;
2. Sponsor topical or special sessions at GSA Section or Annual Meetings;
3. Develop opportunities for interdisciplinary and specialized meetings;
4. Submit interdisciplinary publications.

## CONNECTING THROUGH THE GSA ONLINE MEMBER COMMUNITY

GSA has invested in a robust communications platform to serve members as they work, and network with each other, in a variety of contexts.

Each Section and Division management board has the option to collaborate using their own private online workspace with a homepage, member directory, discussion forum, and resource library. In addition, officers across all Divisions have a common “community” in which they can share information and resources with other Divisions.

On a larger scale, most GSA Divisions take advantage of the option to maintain their own community in conjunction with a Division website, hosted within the platform for consistency and easy access. Like the leadership communities, each Division community provides a private member network for those of like-minded interests, and also a directory, discussion forum, and resource library. So, too, are student communities organized within each Division and Section.

GSA committees and other member groups are also hosted and conduct business and member communications through the Member Community (<http://community.geosociety.org/home>).



# Membership

Where Geology and People Come Together



## Lewis Land

The things I value most about my GSA membership are the opportunities it provides for professional interaction with other geoscientists and students at the national and regional meetings. I continue to be surprised at how much I learn, and not just from the technical sessions.

New Mexico Bureau of Geology and Mineral Resources;  
and National Cave and Karst Research Institute  
*GSA Member since 1992*



## Steven Semken

GSA membership has been indispensable to my career, and is important to me because of the Society's long-standing support of effective practice and rigorous research in geoscience education.

Arizona State University  
*GSA Member since 1988*  
*GSA Fellow since 2014*

## Tiffany Rivera

GSA is more than just a membership. It is a community of learners and scientists. It is a way to be involved with geoscience beyond my institution, and a way to give back to an organization that has given me so many opportunities.

Westminster College  
*GSA Member since 2006*



GSA's 25,172 members comprise a diverse community of professional geologists, early career professionals, students, K–12 teachers, and affiliates from the education, industry, and government sectors. GSA members represent more than 27 scientific specialties and interests, and have the option to belong to one or more of GSA's 18 special interest Divisions, three Interdisciplinary Interest Groups (IIGs), and six regional Sections.

To continually represent and support members' scientific disciplines, the third interdisciplinary interest group (IIG)—Continental Scientific Drilling— was formed in June 2017. Additionally, free online access to the journal *Geology*, including archives, became a new member benefit for all GSA members.

## SUPPORTING EARLY CAREER PROFESSIONALS AND GEOSCIENCE STUDENTS

It has been GSA's history and long-term goal to support geoscience students and early career professionals in their pursuit of careers in the geosciences by offering programs to aid in their success, and providing benefits designed specifically around their needs.

Student and Early Career Professional members continue to enjoy reduced GSA membership and Division dues, reduced GSA meeting registration, free online access to GSA's journals, and access to GSA's GeoCareers programs, along with other membership offerings. GSA student members, who represent 34% of GSA's membership, not only benefit from the aforementioned, they also receive one free Division membership of choice, and may be eligible for travel and research grants.

In support of geoscience students, 510 professional members in 37 countries serve as Campus Representatives by advocating for the Society and encouraging their students to be involved by taking advantage of programs and services offered through GSA membership.



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## GRADUATE STUDENT RESEARCH GRANTS

One of the most successful student programs is the GSA Graduate Student Research Grants Program—one of the largest and most prestigious funding programs for graduate students in the geosciences. The program helps fund field and laboratory costs of geoscience projects proposed and conducted by master's and doctoral student members at universities in North and Central America. Throughout its more than 80-year history, the GSA Research Grants Program has awarded over 11,000 geoscientists more than US\$15,000,000 to conduct research. For FY2017, a record 785 students applied for funding, and 395 were awarded a grant (50%). The total amount of money granted was US\$692,164. The average grant amount awarded in 2017 was US\$1,752. In 2017, GSA was awarded a new three-year NSF grant, which will support the Graduate Student Research Grant Program through 2019.

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## AWARDING EXCELLENCE IN THE GEOSCIENCES

In support of our mission to advance the geoscience profession, GSA honors outstanding scientific achievement each year at the GSA awards ceremony held during the Annual Meeting. The three highest awards are the prestigious Penrose Medal, the Arthur L. Day Medal, and the Young Scientist Award (Donath Medal).

### Other notable awards include:

- President's Medal of the Geological Society of America
- Randolph W. "Bill" and Cecile T. Bromery Award for Minorities
- Outstanding Woman in Science Award
- Geologic Mapping Award in Honor of Florence Bascom
- GSA Distinguished Service Award
- GSA Public Service Award
- John C. Frye Award
- AGI Medal in Memory of Ian Campbell
- Honorary Fellows
- GSA Fellowship
- GSA Division Awards

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## GSA INTERNATIONAL INITIATIVES

GSA remains active within the international geoscience community in the belief that "science knows no borders." The GSA worldwide member community spans 107 countries with 1992 members residing outside of North America, mostly in the United Kingdom, Australia, Japan, Germany, and China.

GSA International and the International Interdisciplinary Interest Group, in partnership with the Cuban Geological Society, sponsored a Pardee Keynote Symposium at the 2016 Annual Meeting in Denver, titled "Geologic Evolution of Cuba," convened by Robert Stern, Manuel Antonio Iturralde-Vinent, Antonio Garcia-Casco, Yamirka Rojas-Agramonte, J. Brendan Murphy, and Darrel S. Cowan.

The session brought together geoscientists from Cuba, the United States, and Europe to better constrain and understand the geologic evolution of Cuba and its surroundings. The joint event between the geological societies of the two nations, the first one in many years, was a new start to what is hoped will become a strong relationship. GSA International provided travel funds to help four Cuban nationals attend the meeting.

GSA worked this year on planning a joint meeting in Addis Ababa, Ethiopia, in partnership with the Geological Society of Africa. GSA hosted a reception/planning meeting at the 35th International Geological Congress in Cape Town, South Africa, but the collaboration was necessarily postponed to an undetermined future date.

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## GSA JAMES B. THOMPSON JR. DISTINGUISHED INTERNATIONAL LECTURESHIP

The 2016–2017 lecture tours are made possible through a gift to the GSA Foundation by James B. Thompson Jr., whose bequest contributed to the endowment of two lecture tours by distinguished geologists, one a non-North American scientist to tour academic and related institutions within North America, and the other a North American scientist to tour foreign universities and geological institutions. Both tours are arranged under the guidance of GSA International.

The GSA International committee selected **Terry Plank** (Lamont Doherty Earth Observatory) as the outgoing speaker and **Christopher Jackson** (Imperial College) as the incoming speaker based on their clear qualifications as scientists as well as their dynamic and clear public speaking.

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## INTERNATIONAL HONORARY FELLOW

The GSA Honorary Fellow Award is presented to an international geoscientist who has distinguished him- or herself in geoscience investigations, promoting environmental awareness, linking science and society, providing notable service to implementing public policy in natural resource management, or otherwise making outstanding contributions to science.



The 2016 recipient was **Bor-Ming Jahn**, Department of Geosciences, National Taiwan University.

# Meetings

Connecting the Geoscience Community



GSA offers a variety of meetings to geoscientists; from small research forums, to moderate specialty conferences, to a large annual meeting. These forums, conferences, and meetings are held around the globe throughout the year. GSA provides a platform for scientists to provide their latest research, build upon current knowledge, and network with peers. GSA strives to keep meetings cost-effective, yet provide the latest technology platforms for scientific exchange. In fiscal year 2017 (FY17), GSA hosted seven meetings and conferences, bringing together thousands of geoscience professionals and students.

**The GSA Annual Meeting and Exposition** was held in Denver, Colorado, in September 2016. Nearly 7100 attendees from 47 countries attended while presenting more than 4600 abstracts over several days. Twenty-four field trips ran and 18 short courses were held. More than 200 companies, organizations, and universities exhibited during the meeting. GSA also welcomed several Cuban scientists to the meeting to participate in a Pardee Keynote Session.

Hundreds of volunteers participate yearly in the GSA Annual Meeting—From local organizing committee members and the Joint Technical Program Committee, to the hundreds of session conveners from every geoscience discipline and the hundreds of student volunteers from campuses across the Americas and abroad. There is something for everyone at the GSA Annual Meeting.

**GSA Section Meetings** are unique venues for interdisciplinary science and are an important hub for discussing and presenting current research. They provide an excellent opportunity for both professionals and students to attend and participate in technical sessions, field trips, and short courses close to home. The 2017 Section Meetings were held across the country bringing together over 3000 scientists. Meetings were held in San Antonio, Texas (GSA South-Central Section); Pittsburgh, Pennsylvania (joint GSA Northeastern & North-Central Sections); Richmond, Virginia (GSA Southeastern Section); Honolulu, Hawai'i (GSA Cordilleran Section);, and Calgary, Alberta, Canada (GSA Rocky Mountain Section).



**Left to right. SC:** Aerial overview of the Canyon Lake spillway of south-central Texas. Photo by Larry Walther.  
**NE/NC:** Downtown Pittsburgh from Duquesne Incline.  
**SE:** Midlothian Mines. Photo used with permission from Richmond Region Tourism.  
**CORD:** Used with permission from Hawai'i Tourism Authority. Photo by Tor Johnson.  
**RM:** Three Sisters from the Front Ranges along the Trans Canada Highway near Canmore. Photo by Larry Lane.



**GSA's Penrose Conferences** were established in 1969 to bring together multidisciplinary groups of geoscientists and facilitate an open and frank discussion of ideas in an informal atmosphere, as well as to stimulate individual and collaborative research.

**Thompson Field Forums** were established in 1998 and provide the opportunity for exchange of current knowledge and exciting ideas well expressed by the geology of a specific area. The intent of Thompson Field Forums is to stimulate and enhance individual and collaborative research and to accelerate the advance of the science by interactions in the field.



View of the town of Apiro in front of Monte San Vicino (image credit: C. Koeberl).

**One Penrose Conference** took place in FY17. *Layered Mafic Intrusions and Associated Economic Deposits* was held 8–12 August 2016 in Red Lodge, Montana, USA. The conference gathered an impressive array of 58 experts and six industry delegates from Taiwan, Germany, the UK, Canada, South Africa, and the United States.

Several Penrose Conferences and Thompson Field Forums are planned for FY18 and beyond, but more are welcome. If you have an idea and would like to look into convening a Penrose Conference or Thompson Field Forum, visit [www.geosociety.org/PC-TFF](http://www.geosociety.org/PC-TFF) for more information. Initial funding may be available.



**GSA's Specialty Meetings** may take place anywhere in the world. These meetings are typically co-hosted by another country's geological society. *Geological Evolution of Africa: Making and Breaking of a Continent* was planned for FY17 in Addis Ababa, Ethiopia, 13–17 March 2017 in conjunction with the Geological Society of Africa; however, it was postponed to an undetermined date. This meeting will cover three major themes: the Archean Lithosphere, the Pan African Event, and the Great East African and Other Rift Systems of Africa.



## **Geological Evolution of Africa Making and Breaking of a Continent**

# Thank You FY 2017 Sponsors

Building New Corporate Relationships

## DOUBLE DIAMOND



## GOLD





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GSA and the Foundation collaborate in a wide range of sponsorships supporting the Annual Meeting, and more: field camps, teacher excellence recognition, geoscience students' field camp attendance, diversity programs, and a number of in-kind services are all made possible thanks to partners and sponsors. We were pleased to offer the fourth year of the GeoCareers program, supported by a variety of sponsors, and the addition of GEO.SCI, the new tech demo area in the exhibit hall of the Annual Meeting. We aim to increase unique sponsorship opportunities that shed a spotlight on GSA and partners, even beyond our membership and regular supporters.

The combined efforts of business and science can make a greater difference than any organization alone. As GSA continues to convey its relevance to the private sector, we look forward to expanding corporate relationships in a variety of industries. Together, we can foster the growth of current and future leaders in the geoscience community, engaging business and industry as a positive force to advance science, stewardship, and service.

We thank the companies that join us in the meaningful impacts of partnership.

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## SILVER

Denver Museum of Nature & Science\*  
Newmont Mining Corporation

## BRONZE

American Geosciences Institute  
Association for Women Geoscientists  
Cambridge University Press  
Colorado College  
Colorado Geological Survey  
Colorado School of Mines  
Fort Lewis College  
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## CONTRIBUTOR

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Oklahoma State University  
Colorado State University  
Society of Economic Geologists  
University of Colorado  
University of Northern Colorado

*\*denotes in-kind contribution*

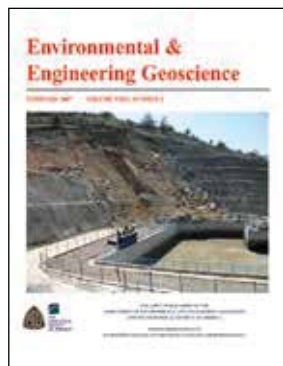
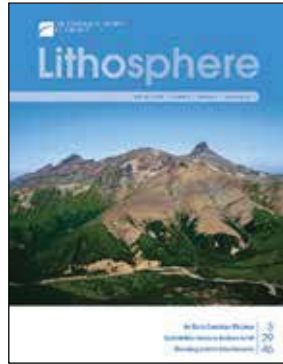
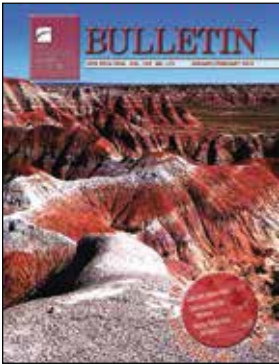


**GSA FOUNDATION**

The GSA Foundation is proud to continue its work in support of GSA and its programs.

# Publications

Discover, Protect, and Preserve



## JOURNALS

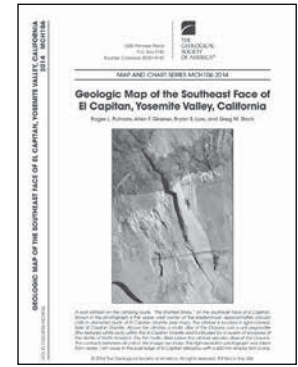
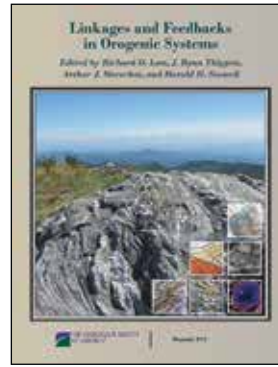
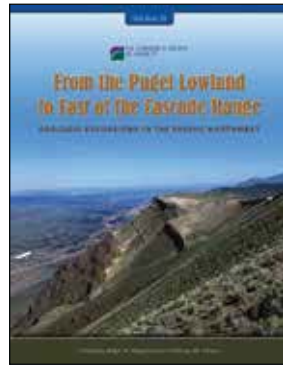
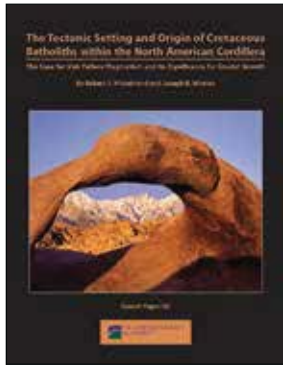
The peer-reviewed journals *Geology*, *Geosphere*, *Lithosphere*, and *GSA Bulletin* are published at [www.gsapubs.org](http://www.gsapubs.org), through the aggregate GeoScienceWorld ([www.geoscienceworld.org](http://www.geoscienceworld.org)), and on an annual DVD. All four publish accepted articles online as soon as they are ready (ahead-of-issue), and all four have archives online back to volume 1 of each publication. *Geology* was made free online for GSA members in 2017 as part of GSA Council's longer-term goal of making all GSA journals 100 percent open access in the future.

- *GSA Bulletin*, published since 1890, is the definitive geoscience journal. 2017 impact factor\*: 4.212; five-year: 4.566.
- *Geology*, published since 1973, is the #1 geology journal for the eleventh year in a row\*. 2017 impact factor: 4.635; five-year: 5.047.
- *Geosphere*, launched in 2005, encourages innovative publication in all geoscience fields. 2017 impact factor\*: 2.304; five-year: 2.466.
- *Lithosphere*, the voice for integrated and interdisciplinary tectonics since 2009, ranks as the #8 geology journal\*. 2017 impact factor\*: 2.662; five-year: 3.221.

*GSA Today*, GSA's science and news magazine for members and the earth-science community worldwide, features peer-reviewed science articles, hot-topic or issue-driven articles, member news, and announcements. It is open access online at [www.geosociety.org/gsatoday](http://www.geosociety.org/gsatoday).

Published jointly by the Association of Environmental and Engineering Geologists and GSA is the quarterly *Environmental & Engineering Geoscience*. Online at GeoScienceWorld, it contains new theory, applications, and case histories illustrating the dynamics of environmental and applied disciplines. 2017 impact factor\*: 0.739; five-year: 0.896.

\*2017 Clarivate Analytics (formerly Thomson Reuters) Journal Citation Reports (a systematic, objective means to evaluate a journal's impact based on how many citations its papers receive each year). GSA Special Papers, Memoirs, and Reviews in Engineering Geology volumes are tracked in its Book Citation Index.



## BOOKS AND MAPS

GSA published 11 peer-reviewed scholarly books in fiscal year 2017. The Special Paper series (five volumes in FY17) is for state-of-the-art treatments of evolving subjects, while Memoirs are intended to remain authoritative references for a number of years. Field Guides (six volumes in FY17) feature guides from field trips held at GSA and other meetings. The Reviews in Engineering Geology series, produced in cooperation with GSA's Engineering Geology Division, was retired in FY17. Topics covered by the series will be published as Special Papers in the future. GSA also retired its Maps and Charts series in FY17. The Publications Department produces an annual calendar and publishes *Memorials* to deceased GSA members (four published in FY17). *Memorials* back to volume 1 are available at [www.geosociety.org](http://www.geosociety.org).

GSA's e-book collection ([www.gsapubs.org](http://www.gsapubs.org)) includes Special Papers, Field Guides, Memoirs, and Reviews in Engineering Geology volumes back to volume 1 from each series. Individual papers from volumes in progress are now posted "Online First" as they are ready. Also online is the complete suite of Decade of North American Geology volumes and maps, available at GeoScienceWorld and at the GSA Store. Other digitized books available include the GSA Field Guide and Reviews in Engineering Geology volumes, Engineering Geology Case Histories, Penrose Field Guides, and numerous non-series books.

## GEOFACTETS

GSA continues its participation with Geofacets, a research tool primarily for exploration geoscientists that lets subscribers search and download thousands of georeferenced geological maps and other content (including about 80,000 maps from GSA publications).

## GSA STORE

Along with providing a storefront for GSA books, maps, educational materials, and specialty tools, the GSA Store has made it possible to offer e-versions of hundreds of previously unavailable or out-of-print publications to researchers and citizen scientists alike.

## HELP FOR NEW AUTHORS

An early-career publishing workshop was held for the fourth time at the GSA Annual Meeting in Denver. The workshop, led by GSA editors, covered many aspects of the process of preparing research for submission to scholarly journals, including the importance of contributing as a reviewer.



# Education and Outreach

## Nurturing Current and Future Generations

The Geological Society of America®

# GEOCAREERS



Earth-science education and outreach activities are at the core of GSA's mission to increase appreciation of Earth's history, processes, and resources.

## EXPLORE CAREERS

### The GeoCareers Program

GSA's GeoCareers initiative provides events, activities, and workshops at GSA Section and Annual Meetings, aimed at increasing knowledge of career pathways for geoscience students, as well as early career professionals.

### Annual Meeting

GeoCareers Day connects students with professionals via a workshop, an information session, mentor roundtables, and a career pathways panel, as well as a résumé clinic. In 2016, this event provided more than 280 students and early career professionals with a well-rounded understanding of geoscience careers.

Networking and mentor panels are driven by questions and highlight a variety of careers. Events include the Women in Geology Pathways Reception, the Networking Reception, the Career Pathways Panel, and the Early Career Professionals Coffee event. Women in Geology speakers address issues faced by women in the geosciences, and their talks are followed by small-group mentoring sessions with 30 mentors. The Networking Reception engaged 40 mentors who spoke with students and early career professionals, and the Career Pathways Panel recruited 30 mentors



for its mentor roundtable sessions. Overall, more than 600 attendees had access to more than 175 mentors at the meeting.

GSA's On To the Future (OTF) program supports a diverse group of students to attend their first GSA Annual Meeting. Seventy-nine students were funded to attend the 2016 meeting. These students were paired with mentors from GSA leadership to learn about GSA student opportunities. In addition, GSA partnered with the International Association of Geoscience Diversity to support a group of students with disabilities to attend the meeting.

### Section Meetings

The Roy J. Shlemon Mentor Program in Applied Geoscience and the John Mann Mentors in Applied Hydrogeology program are short-term, lunchtime mentoring events that connect students and early career professionals with practicing geologists and hydrogeologists. Combined, both events reached 427 students and early career professionals and recruited 57 mentors in 2016. Contributions by the South-Central, Northeastern, North-Central, and Southeastern Sections helped these mentoring events reach more attendees.

**The Northeast Urban Metro Travel Grant** provides financial assistance to non-traditional students attending urban universities in GSA's Northeastern Section. Non-traditional students are those who have delayed enrollment in post-secondary education associated with caring for dependents and/or working full-time, and who due to competing non-academic priorities, are unable to participate in multi-day field or meeting experiences critical to geoscience education and training. This year five students were awarded grants.





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## PROFESSIONAL DEVELOPMENT

### The GeoTeachers Program

The goal for the GeoTeachers Program is to provide professional development via workshops and field experiences for K–12 teachers with little to no geoscience background. This past year was a quiet one for GeoTeachers, as GSA Headquarters sought to reshape the program and hired a new Education Programs Coordinator at the end of the fiscal year.

Moving forward, GeoTeachers will be based on a strategy of acting locally to achieve globally, using GSA members to build summer workshops at the state level. Teachers will work with experts from academia, industry, government agencies, and master teachers on topics related to their curriculum. The host site will serve as a base for field trips to locations relevant to understanding the geologic history, key processes, major resources, and geologic challenges, and will include natural outcrops and industrial sites. Following the summer workshops, professional development for the teachers will continue via GSA-sponsored webinars designed to help participants integrate what they have learned into their classrooms and share their successes at GSA Section Meetings.

The sustainability of this model rests on creation of state teams to recruit the geoscientists needed to support their local workshops. Each team will seek funding from area industries to keep workshops affordable, with academic institutions and government agencies sharing expertise. GSA's resources will be focused on guidance, post-workshop programming, and the support needed to build and sustain the local committees. The goal for the first year is to begin building one state-level team in each GSA Section and three operational workshops for summer 2018.

### Short Courses

The 2016 Annual Meeting offered 18 short courses for 385 attendees, 59% of whom were students. This percentage continues to increase annually. The average fee per course remains low at \$38, also making the courses affordable to students.



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## FIELD AND RESEARCH EXPERIENCES

### GeoCorps™ America, NPS Geoscientists-in-the-Parks (GIP), and GeoCorps Enterprise

GeoCorps America has continued its partnerships with the Bureau of Land Management (BLM) and the U.S. Forest Service, filling more than 50 GeoCorps projects in 2016, and an estimated 50–60 in 2017. For the National Park Service and its Geoscientists-in-the-Parks (GIP) program, GSA recruited for more than 130 projects in 2016 and an estimated 130–140 in 2017. For GeoCorps, GSA recruits participants for projects with the BLM and U.S. Forest Service, while GSA's staffing partner, Aerotek, enrolls them as its employees. For the NPS GIP program, GSA recruits the participants, and another NPS partner, the Stewards Individual Placement Program, enrolls them in AmeriCorps.

At the 2016 GSA Annual Meeting, 28 participants from GeoCorps and GIP presented their projects in GeoCorps/GIP sessions, and a few more presented their projects in other sessions. Due to increased use of the federal Public Land Corps Act and the Direct Hire Authority, GeoCorps has seen an increasing number of participants hired into jobs with the federal government.

GeoCorps Enterprise is a new initiative by which GSA seeks to place participants in short-term geoscience positions within industry sectors, including mining, petroleum, geotechnical, environmental, and hydrogeological businesses. GSA is currently looking for industry partners interested in offering such opportunities to students and recent graduates.

### GSA/ExxonMobil Field Camp Programs

With continued support from ExxonMobil, the GSA/ExxonMobil Field Camp Excellence Award is given annually to a geology field camp that demonstrates safety awareness, diversity, and technical excellence. In June 2017, the \$10,000 award went to Illinois State University's Rocky Mountain Field Camp.

### The EarthCache™ Program

EarthCache is an educational geocaching program that takes the general public to interesting earth-science sites across the globe. Since January 2004, a total of 28,623 EarthCache sites have been "published" at Geocaching.com, representing 205 countries. EarthCache "finds" have been logged 5,108,972 times by 539,489 individuals. As part of GSA's ongoing efforts to engage more members this program, GSA hosted EarthCache-related activities in conjunction with the 2016 Annual Meeting.



# Government Affairs and Public Policy

## Bridging the Geosciences and Public Policy



GSA president Claudia Mora and Matt Polizzotto (on left), along with Jessica Witt and GSA Rocky Mountain student award winner Thomas Luckie (on right), thank Rep. David Price (D-NC) (center) during Geosciences Congressional Visits Day, for his leadership in preventing cuts to geoscience research funding at NSF

### GSA PROVIDES ITS PRIORITIES FOR THE NEW ADMINISTRATION

GSA provided information on its priorities for the new Administration through letters from coalitions, including the Task Force on American Innovation, U.S. Geological Survey Coalition, Coalition for National Science Funding (CNSF), Coalition for Aerospace and Science, Energy Sciences Coalition and Geoscience Policy Recommendations for the New Administration and the 115th Congress. The recommendations called for funding increases and other policies beneficial to geoscience research at the National Science Foundation (NSF), NASA, Department of Energy (DOE), and U.S. Geological Survey (USGS).

### TESTIMONY SUPPORTS GEOSCIENCE RESEARCH FUNDING

GSA joined 130 institutions to submit congressional testimony in support of NSF, National Oceanic and Atmospheric Administration (NOAA), and NASA that emphasizes the contributions geoscience makes to national security, economic competitiveness, and public safety. GSA also submitted its own testimony supporting NSF, National Aeronautics and Space Administration (NASA), and USGS. In addition, GSA joined members of the Energy Sciences Coalition to submit testimony in support of research at DOE's Office of Science and the USGS Coalition on appropriations for the agency.

### Concerns with Travel Restrictions and VISA Policy

GSA and the American Geophysical Union (AGU) issued a joint response noting concerns with the Executive Order "Protecting the Nation from Foreign Terrorist Entry into the United States." In addition, GSA joined 150 organizations to express deep concern "that this Executive Order will have a negative impact on the ability of scientists and engineers in industry and academia to enter, or leave from and return to, the United States. This will reduce U.S. science and engineering output to the detriment of America and Americans." GSA joined more than 50 scientific societies to send comments on a proposed expansion of the information collected as part of the visa application process, expressing concern that "the uncertainties and confusion regarding supplemental questions will have a negative impact, particularly on U.S. higher education and scientific collaborations."

### Congressional Exhibits

GSA showcased geoscience research at four Capitol Hill exhibits that drew hundreds of congressional members, staff, and executive branch leaders. At the CNSF Exhibit in support of National Science Foundation research on 16 May, GSA, the American Geosciences Institute (AGI), and AGU cosponsored an exhibit featuring the research of Sarah George and Tomas Capaldi, geoscience Ph.D. candidates at the Jackson School of Geosciences, University of Texas at Austin. On 25 April, GSA jointly hosted a booth at the STEM on the Hill exhibit with AGU and AGI focused on USGS research. On 14 June, GSA and AGU showcased earth science as part of an event highlighting NASA Partnerships & Collaboration. In September 2016, GSA helped organize the USGS Coalition Awards and Reception, where awards were presented to Reps. David Joyce and Chellie Pingree for their support of the agency.

### Congressional Briefings

GSA cosponsored briefings to provide geoscience information to congressional members and staff during the year, including

**Building the Modern World: Geoscience That Underlies Our Economic Prosperity;**

**Watching the World: Saving Lives through Hazards Mapping and Monitoring; and**

**Lahars: Preparing for Volcanic Landslides.**





Wendy Kordesch (left) and GSA President-elect Isabel Montañez (right) discuss climate change with Rep. Jimmy Panetta (D-CA).



Geology and Public Policy Committee (GPPC) Chair Art Snoke (left) meets with Senator Barrasso (R-WY).

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## GSA MEMBERS MEET WITH POLICYMAKERS

GSA provides opportunities for its members to meet with Members of Congress by holding Congressional Visits Days and associated training sessions. Events this year included Climate Science Day, Geoscience Congressional Visits Day, and Geology and Public Policy Committee (GPPC) visits. Participants begin with an orientation program that covers current geoscience-relevant legislation, the structure of Congress, and strategies to build relationships between scientists and policymakers. The next day scientists head out in teams, accompanied by a scientific society staff member, to meet with congressional offices on Capitol Hill.

Can't come to D.C.? Join other geoscientists in Geoscience District Visits Day and meet with your elected representatives when they return to their home districts!



Kirstin L. Neff

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## GSA-USGS CONGRESSIONAL SCIENCE FELLOW

Kirstin L. Neff served as the 2016–2017 GSA-USGS Congressional Science Fellow. She spent a year working in the office of Senator Martin Heinrich (D-NM) on water, energy, and other science policy issues.

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## GSA VISITING SCHOLAR

Former GPPC chair Paul Doss spent two weeks in the GSA Washington office as a visiting scholar, bringing an academic perspective to congressional visits. He also attending hearings and examined legislation. He published several articles in *Speaking of Geoscience* and in *GSA Today*.

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## UPDATED POSITION STATEMENTS

GSA Council adopted minor revisions to seven position statements at its May 2017 meeting:

- *Data Access*
- *Geoheritage*
- *Supporting Planetary Exploration*
- *Rewarding Professional Contributions in the Public Spheres*
- *Water Resources*
- *The Value of Geologic Mapping*
- *Teaching Evolution*

Council also endorsed the “Freedom of Scientific Expression” statement by the American Meteorological Society. Full versions of these and other position statements are available at [www.geosociety.org/PositionStatements](http://www.geosociety.org/PositionStatements).



# GSA FOUNDATION

Serving Science and the Profession

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## THE FOUNDATION

The Geological Society of America Foundation's mission is to support the programs of the Geological Society of America. The Foundation welcomes contributions from individuals, corporations, foundations, and institutions.

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## 2016–2017 HIGHLIGHTS

In FY17, the GSA Foundation received contributions and pledges of over \$891,290 from individual GSA members and corporations. Our success was assured by 7187 separate gifts at all levels—the largest number in the Foundation's 37-year history.

The responsibilities of the Foundation are to

1. Support GSA programs and
2. Preserve the Foundation's assets for the future. With respect to the first, we were able to provide GSA with \$806,277 to support its programs. With regard to the second responsibility, the Foundation's assets ended the year at a historic high—more than \$19.9M as compared with \$18.8M at the end of FY16.

New projects supported through member contributions in FY17 include:

- Research Grant—Grant and Jody Heiken
- Research Grant—In Honor of Michele Aldrich.

I wish to recognize the continuing support of Sally and Bob Newcomb for National Park Service Geoscientists-In-the-Parks (GIP) positions at Denali National Park and Charlie Ross for his ongoing, substantial support of his Graduate Student Research Grant Fund. These are just two examples of the generous donors who truly help sustain our work. I also thank dozens of other individuals, associated societies, GSA sections, and corporate sponsors for continuing to help advance On To the Future, GSA's flagship diversity enhancing program.

We were pleased that corporate partnerships supported a fourth year of the GeoCareers Program, expanded into year-round resources for students and early career professionals and a presence at section meetings. Thanks go to our corporate donors

for supporting and participating in the first tech demo area at the GSA Annual Meeting in Denver.

We recognized our Penrose Circle-level donors at a Penrose Circle and Student Awards Reception during the 2016 Annual Meeting. The newly combined event provides an opportunity for Penrose Circle donors to meet and talk with the student award recipients.

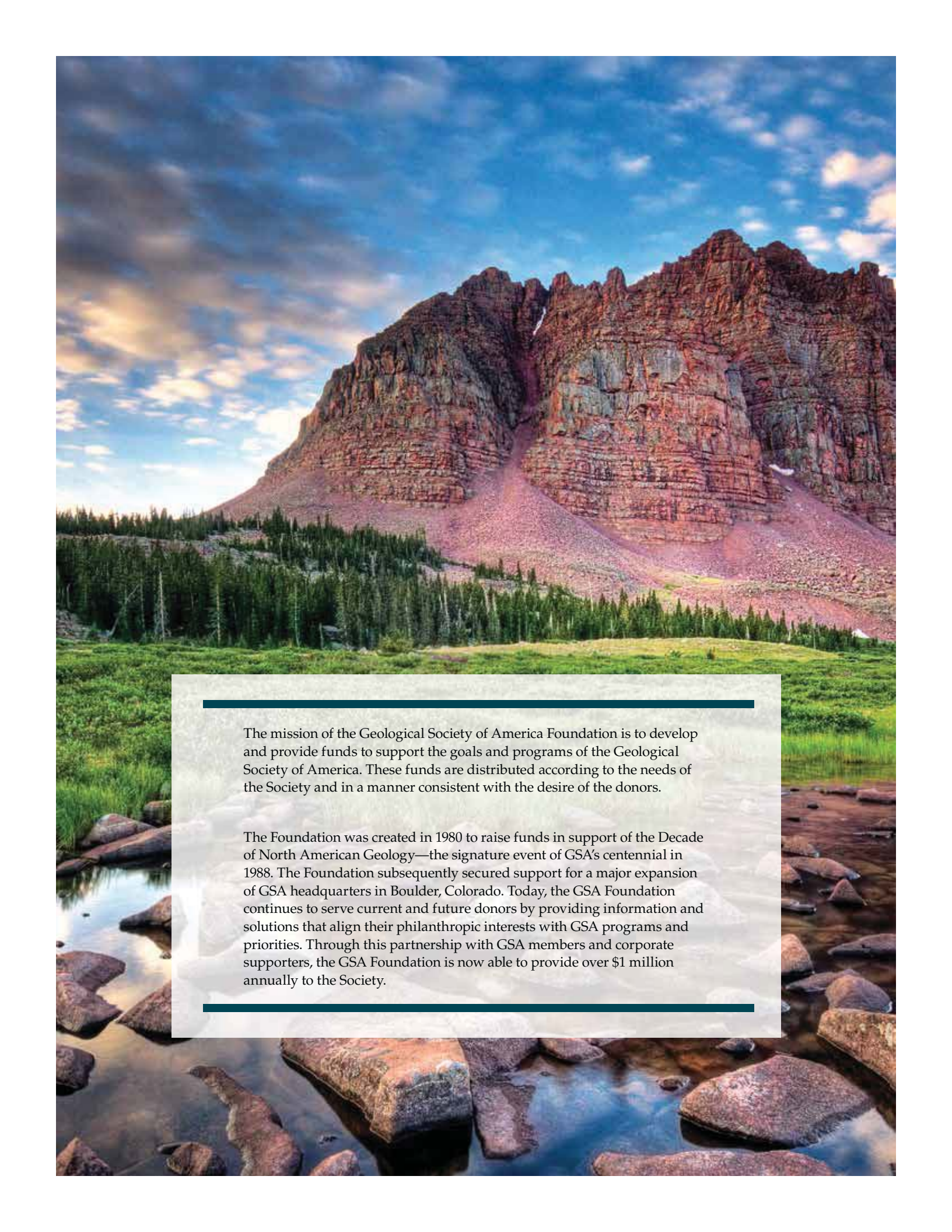
The Foundation is pleased to help donors support GSA programs and priorities important to them. Looking forward, the Foundation and GSA are collaborating to carry out even more effective resource-building strategies. With your help we will shape a strong future for GSA.

I encourage every member to avail themselves of the opportunity to serve GSA and to support the Foundation in their combined efforts to ensure the dynamism and strength of the geosciences. Please visit the Foundation's website ([www.gsafweb.org](http://www.gsafweb.org)) for information and ideas regarding ways philanthropy will make a difference for GSA and the geosciences.

John W. Hess, *GSA Foundation President*

[www.gsafweb.org](http://www.gsafweb.org)





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The mission of the Geological Society of America Foundation is to develop and provide funds to support the goals and programs of the Geological Society of America. These funds are distributed according to the needs of the Society and in a manner consistent with the desire of the donors.

The Foundation was created in 1980 to raise funds in support of the Decade of North American Geology—the signature event of GSA's centennial in 1988. The Foundation subsequently secured support for a major expansion of GSA headquarters in Boulder, Colorado. Today, the GSA Foundation continues to serve current and future donors by providing information and solutions that align their philanthropic interests with GSA programs and priorities. Through this partnership with GSA members and corporate supporters, the GSA Foundation is now able to provide over \$1 million annually to the Society.

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# GSA Operations Report

## GSA Audit Report Summary

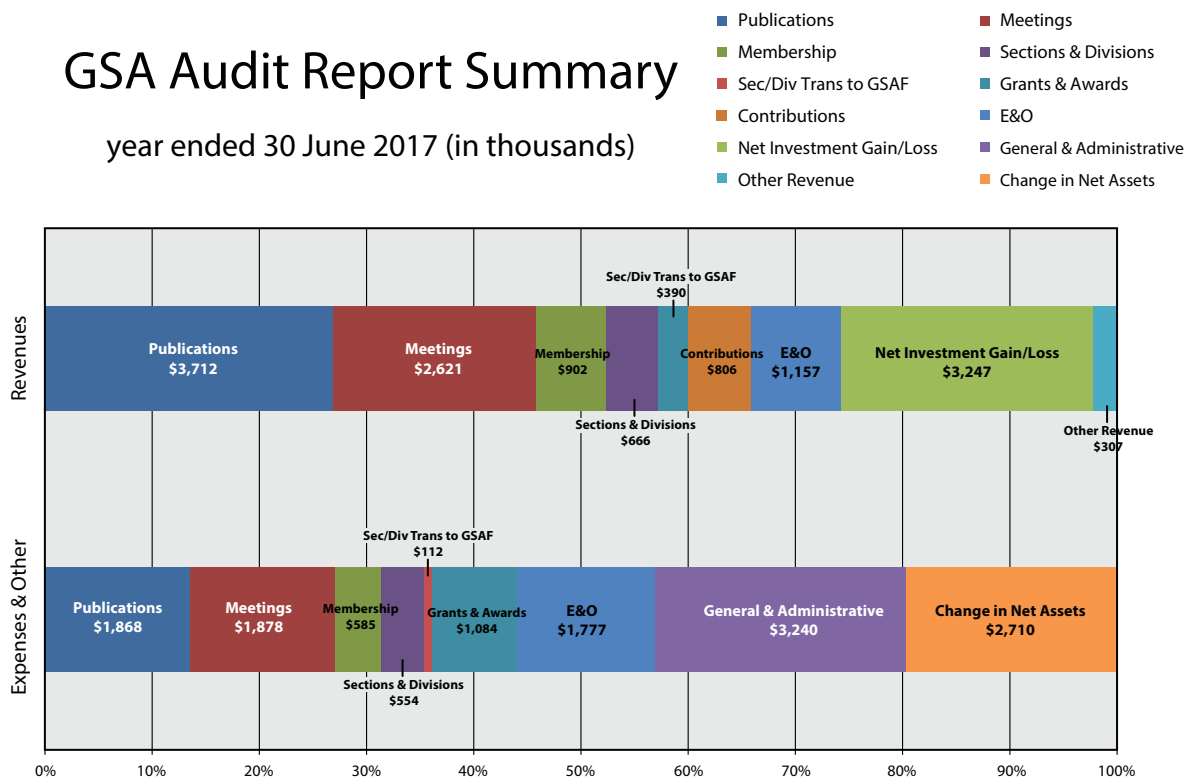
Fiscal year 2017 (FY17) ended with the change in net assets before investment earnings \$257 thousand better than fiscal year 2016 (FY16) with significant ongoing changes in programs and operations during the year. The principal changes in FY17 occurred in the GeoCorps and NSF STEPPE programs. This positive result reflects the continuing dedicated commitment of all staff, volunteers, and leadership to the ongoing financial health of the organization.

Brock and Company CPAs, P.C. completed their combined audit report of GSA for FY17 and issued an unqualified opinion.

For FY17, the Society had net investment income of \$3.25M compared to an investment loss in FY16 of \$167 thousand. This change principally reflects a market rebound after lagging through calendar 2015 and the first half of calendar 2016.

## GSA Audit Report Summary

year ended 30 June 2017 (in thousands)



A full copy of the combined audit report can be accessed at <http://www.geosociety.org/AnnualReport>.  
The Treasurer's report can be accessed at <http://www.geosociety.org/AnnualReport>.

# GSA/GSAF Combined Investment

## Portfolio Report

During FY17, the combined investment portfolio in total increased \$4.30M (9.8%) net of a GSA budgeted \$754 thousand draw. The graph presented is for the combined investment portfolio and excludes a separately managed GSAF Pooled Income Fund.

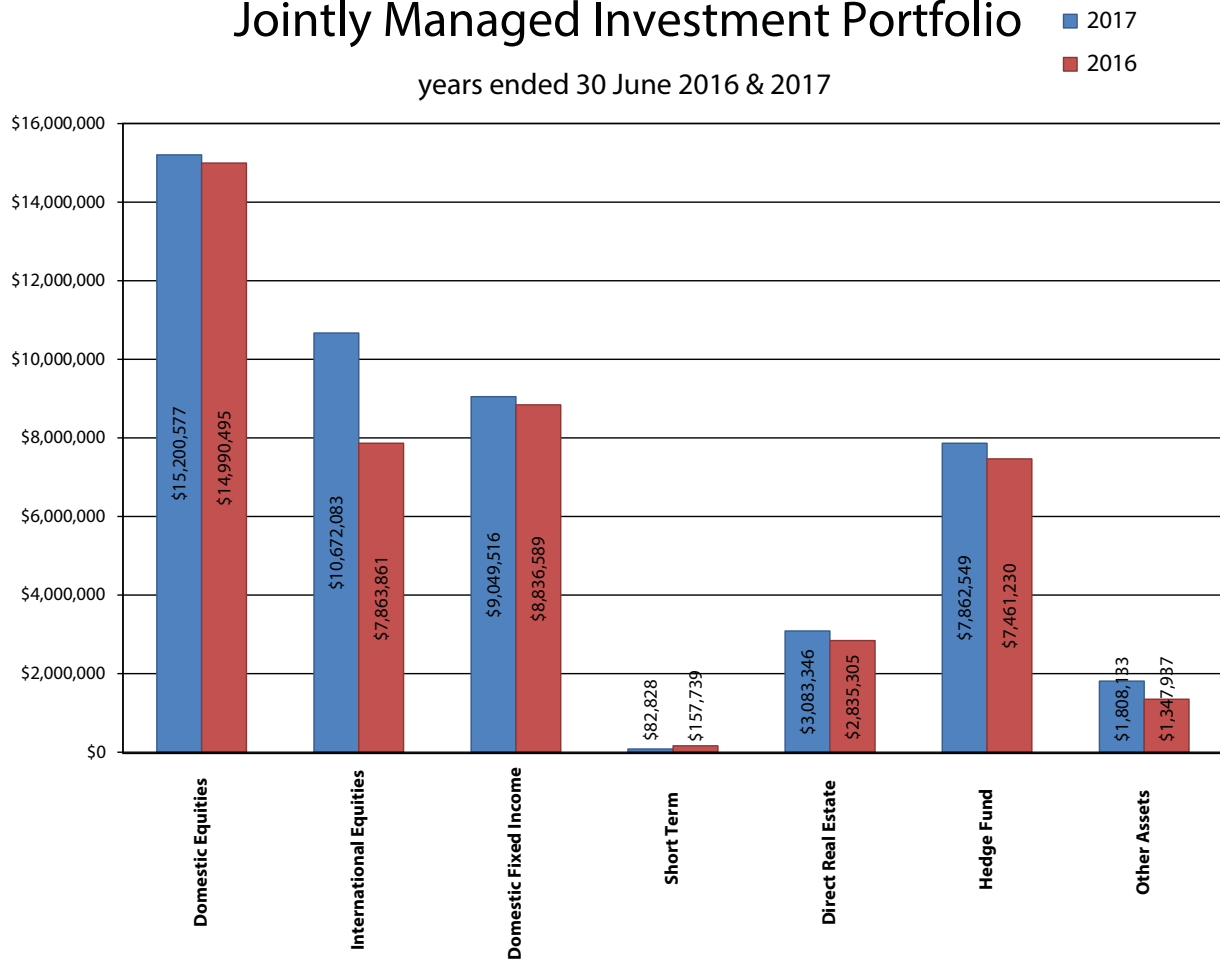
GSA and GSAF have a well-diversified combined investment portfolio and a dedicated team of volunteer members to manage these assets. Through FY17, the joint Investment Committee was composed of nine dedicated and knowledgeable voting members.

The Committee relies on expertise and guidance provided by an outside consulting firm, Ellwood Associates. The Investment Committee continues to follow an investment strategy of diversification among investment asset classes within strategic allocation targets.

The Committee continues to search for members with the interest and aptitude to serve on the Investment Committee in the future. This service is a key component to the long term health of the portfolio, and consequently, the mission of GSA.

### GSA and GSA Foundation Jointly Managed Investment Portfolio

years ended 30 June 2016 & 2017



The Investment Committee Chair's report and summary of the portfolio can be accessed at <http://www.geosociety.org/AnnualReport>.

# GSA/GSAF Combined Investment

## Portfolio Report

The Society's investment portfolio balance is primarily comprised of funds from R.A.F. Penrose (donated in the 1930's) and from Joseph T. Pardee (donated in the 1990's) and accumulated earnings on those funds.

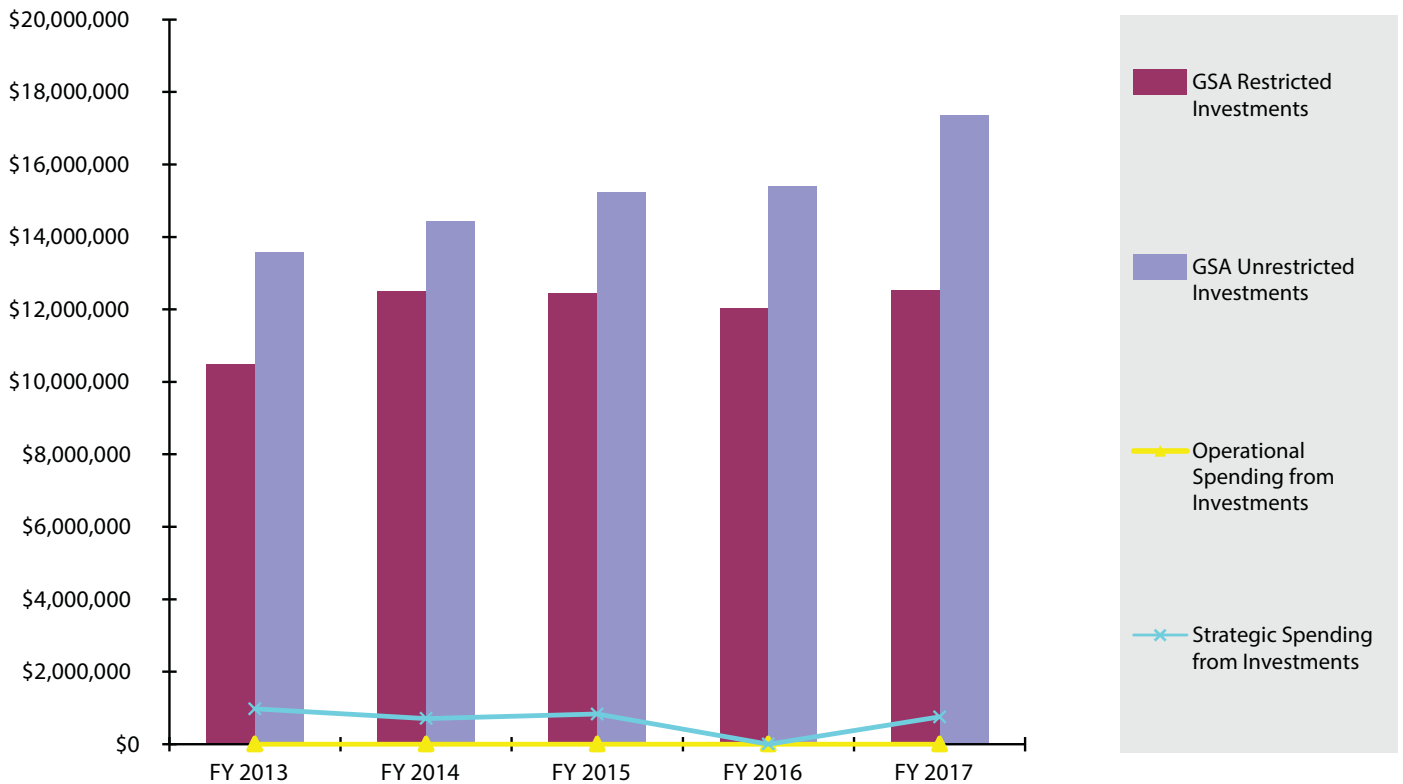
Unrestricted funds are vital to the future of the Society because they can be used where Council designates there is greatest need. In recent years, these funds have supported strategic projects such as Penrose Conferences, Government Affairs, diversity programs and staffing, international programs, and Capital Campaign initiatives.

As indicated in the chart below, GSA investments have primarily increased or decreased due to overall market conditions. The investment balances also fluctuate from investment earnings, less

amounts paid from the Pardee fund for Research Grants and amounts designated from unrestricted funds for strategic spending initiatives approved by GSA Council.

Council approved using Pardee funds for the student research grant program beginning in fiscal year 2004 and then approved spending unrestricted funds for strategic programs beginning in fiscal year 2006. This spending is governed by policy to ensure viability of the portfolio over the long term to ensure the continuing mission of GSA.

*GSA gratefully acknowledges the invaluable contributions of Bruce R. Clark, Treasurer, and Carl P. Fricke, GSA Investment Committee Chair, for service to the Society and preparation of the financial and investment data included in this report.*



The yellow line indicates amounts paid to cover the gap between revenues and operating expenses, which has been flat over the time presented. The blue line shows the fluctuation in strategic spending.



# Stewardship at GSA Headquarters

## GSA Headquarters

Construction and flood mitigation activities continue all around GSA Headquarters. Boulder, Colorado, is experiencing a huge commercial and residential building boom due to several new light industries in the area and the general population boom along the Colorado Front Range. Much of the building is infill because Boulder has a restrictive urban growth boundary.

All of this information and more has been discussed by an ad hoc Campus Vision Committee as they help GSA determine what we need for infrastructure and where we should be located by 2020. The committee presented preliminary options to Council at the 2017 spring meeting and Council asked for more detail on

(1) selling and relocating somewhere along the Boulder–Denver corridor with more visibility, and (2) re-organizing GSA Headquarters to have more space to lease.

Deferred maintenance continues. This year the roof of the west wing was replaced. That was slightly complicated by the fact the solar panels had to be removed and stored while the roofing was being done and then reset afterward. In light of longer-term location decisions, maintenance work will be limited to must-do or must-replace activities.

Photo by Eric Christensen.



# GSA's Associated Societies

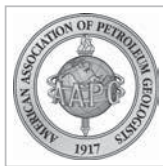
Allied in Service to Members and the Larger Geoscience Community

GSA collaborates with these national and international Associated Societies, with consistent aims and missions of advancing the geosciences and/or science in general. As the Society looks to the future, it aims to build strong, meaningful partnerships with

societies and organizations across the country and around the world in service to members and the larger geoscience community.



AASP - The Palynological Society



American Association of Petroleum Geologists (AAPG)



American Geophysical Union (AGU)



American Institute of Professional Geologists (AIPG)



American Quaternary Association (AMQUA)



American Rock Mechanics Association (ARMA)



Association for the Sciences of Limnology and Oceanography (ASLO)



American Water Resources Association (AWRA)



Asociación Geológica Argentina (AGA)\*



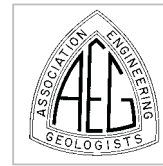
Association for Women Geoscientists (AWG)



Association of American State Geologists (AASG)



Association of Earth Science Editors (AESE)



Association of Environmental & Engineering Geologists (AEG)



Association of Geoscientists for International Development (AGID)\*\*



Blueprint Earth (BE)\*\*



The Clay Minerals Society (CMS)



Colorado Scientific Society (CSS)



Council on Undergraduate Research Geosciences Division (CUR)



Cushman Foundation (CF)



Environmental & Engineering Geophysical Society (EEGS)



European Association of Geoscientists & Engineers (EAGE)\*



European Geosciences Union (EGU)\*



Geochemical Society (GS)



Geologica Belgica (GB)\*



Geological Association of Canada (GAC)



Geological Society of Africa (GSAF)\*



Geological Society of Australia (GSAus)\*



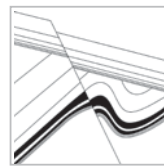
Geological Society of China (GSC)\*



Geological Society of London (GSL)\*



Geological Society of South Africa (GSSA)\*



Geologische Vereinigung (GV)\*



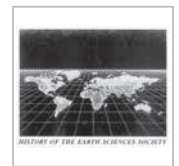
Geoscience Information Society (GISIS)



Geoscience Society of New Zealand (GSNZ)\*



Groundwater Resources Association of California (GRA)



History of Earth Sciences Society (HESS)





International Association for Geoscience Diversity (IAGD)\*\*



International Association for Promoting Geoethics (IAPG)\*\*



International Association of Emergency Managers (IAEM)\*\*



International Association of GeoChemistry (IAGC)\*\*



International Association of Hydrogeologists (IAH)\*\*



International Association of Limnogeology (IAL)\*\*



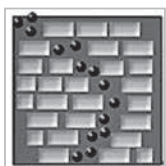
International Medical Geology Association (IMGA)\*\*



International Society for Aeolian Research (ISAR)\*\*



Israel Geological Society (IGS)\*



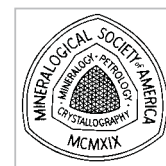
Karst Waters Institute (KWI)



Microanalysis Society (MAS)



Mineralogical Association of Canada (MAC)



Mineralogical Society of America (MSA)



The Mineralogical Society (MS)\*\*



Minnesota Ground Water Association (MGWA)



National Association of Black Geoscientists (NABG)



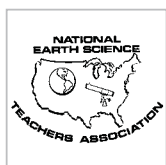
National Association of Geoscience Teachers (NAGT)



National Association of State Boards of Geology (ASBOG®)



National Cave and Karst Research Institute (NCKRI)



National Earth Science Teachers Association (NESTA)



National Ground Water Association (NGWA)



Nepal Geological Society (NGS)\*



Paleontological Research Institution (PRI)



Paleontological Society (PS)



Seismological Society of America (SSA)



Sigma Gamma Epsilon (SGE)



Sociedad Geológica Mexicana, A.C. (SGM)\*



Società Geologica Italiana (SGI)\*



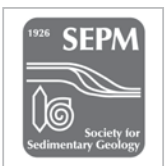
Society for American Archaeology (SAA)



Society for Environmental Geochemistry and Health (SEGH)\*\*



Society for Mining, Metallurgy & Exploration (SME)



SEPM (Society for Sedimentary Geology)



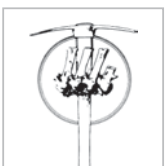
Society for the Preservation of Natural History Collections (SPNHC)



Society of Economic Geologists (SEG)\*\*



Society of Exploration Geophysicists (SEG)\*\*



Society of Vertebrate Paleontology (SVP)



Soil Science Society of America (SSSA)



Western Interior Paleontological Society (WIPS)

\*Associated Societies outside of North America

\*\*Special interest international societies





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