



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.

Isabel Patricia Montañez,
GSA President

"GSA has long been committed to being a Society of inclusion and one that provides and expects the highest standards for professional ethical conduct."

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LETTER FROM THE GSA PRESIDENT



Isabel Patricia Montañez, GSA President

The societal, technological, and political landscape is changing rapidly, with aspects of this change impacting scientific societies, including GSA. Over the past year, leadership has been proactively responding to the opportunities and challenges that have arisen from such change through several initiatives and planning endeavors. After an immersive year, I am confident that leadership's efforts are translating to positive change for the Society and its membership.

GSA has long been committed to being a Society of inclusion and one that provides and expects the highest standards for professional ethical conduct. We aim to be a leader in efforts that build and sustain a culture of ethical civil behavior in the geosciences. To ensure this, the Society has several undertakings that promote and endorse ethical professional behavior in all facets of the Society's activities, including meetings, field and work environments, and in the conveyance of scientific findings through its publications and conferences. Implementation of the GSA Events Code of Conduct through the Respectful Inclusive Scientific Events (RISE) program in 2017 was received with great enthusiasm and appreciation. This past year, in the spirit of the Society's continued commitment to inclusion and professional ethical conduct, an ad hoc Ethics Committee was established. The committee evaluated GSA's Code(s) of Conduct to ensure it clearly articulates the expected standards of professional ethics and that it provides a due process by which to investigate and act on breaches of the code.

The Society has three codes of conduct (an umbrella Society code and codes for events and publications), with the primary Code of Conduct established over a decade ago to articulate the responsibilities and provide guiding principles of conduct for all members. Until this year, the Code of Conduct has had limited legal reach and was primarily aspirational given the lack of a due process by which to investigate and act on breaches of the code. The ad hoc Ethics Committee, chaired by GSA member and Fellow Neil Fishman, was populated with two students, an early career professional and past Congressional fellow, a GSA past president, and academic, government, and industry members. Additional valuable insight was provided by leadership of the American Geophysical Union (AGU) and by legal counsel to GSA. Council enthusiastically endorsed the committee's report and recommendations in May 2018, including formally recognizing harassment, bullying, and discrimination on par with scientific misconduct. Further recommendations are to add an enforcement component to the existing Code of Conduct and to create a standing Ethics Committee. Council further endorsed the hiring of a compliance officer who will be the interface between leadership, headquarters, and legal counsel and who will proactively develop a training program for all GSA standing committees and for the Section and Annual meetings. GSA recently welcomed the Society's first ethics and compliance officer, who began her three-year tenure at headquarters in August. She brings with her vast experience in developing compliance programs for the private sector and was a member of two university programs in business ethics. Additionally, as part of this broader initiative to ensure the highest standards of professional ethical conduct, GSA's Nominations Committee carried out a complimentary effort to evaluate and revise its procedures for developing a slate of officer, Council, and committee nominations.

Leadership embarked in fall 2017 on an 18-month strategic planning effort that will define bold and compelling strategic goals to guide the Society over the next decade. This three-phase planning process focuses on defining the Society's aspirations, assessing evolving member needs and opportunities, and identifying critical issues, all in the context of the key strengths that distinguish GSA as a premier global geosciences society. Importantly, this long-term strategic plan will permit GSA to

impart systemic change and to develop legacy projects, thus assuring the relevancy and sustainability of the Society into the future. The strategic planning effort involves a three-tier planning process with mission- and validation-planning phases and will produce by mid-2019 a comprehensive strategic plan including proactive program, finance, and development plans that will bring our goals to fruition. We have partnered with a professional strategic planner, Mark Holdt of Mountain Sage Consulting, to ensure maximum synergy and efficiency of our efforts. Importantly, collaboration between GSA and the GSA Foundation in this endeavor ensures that fundraising efforts are in full alignment with the strategic goals of the Society.

We have made marked progress in the decadal strategic planning over this past year. Multiple strategies were employed by leadership for the first phase of the planning process—mission planning—including a strategic planning work group that met multiple times to knowledgeably articulate the Society's distinguishing characteristics, assess evolving member needs and opportunities, identify critical issues, and to define the next generation of guiding aspirations for the Society. Engaging the membership broadly has been an integral component of these strategic planning activities given leadership's appreciation that building a key constituent perspective is critical to producing alignment among the various domains of GSA and to ensure representation of the rich diversity of our membership. We accomplished this goal through the integration of members into all components of the strategic planning process and through member outreach surveys and town-hall meetings at the 2018 Section meetings. We welcome your input and feedback as we continue with the strategic planning process this year.

The mission-planning activities carried out this past year define a set of visionary aspirations that will guide the next phase of strategic planning. The aspirations speak to GSA's long-standing commitment to high-quality and high-integrity science, the promotion of the geosciences both within the scientific community and broadly to the public and policy decision makers, as well as to the professional development of students and early career members. This fall, leadership launched the second phase of the decadal strategic planning process—validation planning, which includes three task forces—program planning, financial planning, and development planning, populated by several dozen GSA members. We are excited about the opportunities that GSA's decadal-scale strategic planning is providing to build on the Society's existing strengths and to impart exciting new changes for the future.

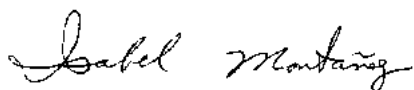
There continues to be broad public support for scientific research and achievements in the United States, but the struggle to generate government and public support for the geoscience enterprise continues. High-quality public engagement, which has been shown to increase the public's positive perception of science, to elicit policy change, and to increase federal research funding, thus plays an integral role in generating support for the geosciences. The promotion of the geosciences and communicating the memberships' findings is a core component of GSA's mission. The Society has several ongoing programs that do this well along with emerging opportunities for enhanced public engagement. In 2017, GSA initiated two new science communication programs that are continuing based on their initial success. Last year, the Society awarded the first Science Communication Fellowship to Beth Geiger, chosen from an impressive pool of more than 125 science journalism applicants. The fellowship, which is made possible through the largess of the Bruce R. and Karen H. Clark Fund, is directed at enhancing communication of the geosciences between GSA members and the non-scientific community. The inaugural fellow, Beth Geiger, prepared press releases at the Annual Meeting and developed compelling press releases for general media outlets throughout her fellowship term. Beth also chaperoned a class of science communication students from Washington State University's Everett campus who attended the GSA Annual Meeting. As part of a longer-term effort to enhance science communication at GSA, the Annual Meeting media efforts have been expanded to include a new Science Communication Internship program designed to encourage interested students to pursue science communication as a career option. The pilot program at the 2017 Annual Meeting involved four media interns, each of whom was mentored by the GSA Communications staff and the science communication fellow. The interns, mentored by Beth, published their communication pieces on GSA's guest blog, *Speaking of Geoscience*. The feedback from the students indicates the experience was highly positive.

Our commitment to open-access publishing for GSA publications remains strong, but cautious, in this time of rapidly evolving approaches to scientific publishing. For example, the European Commission has launched multiple efforts to develop open science policy and smaller scale efforts are being developed in the United States. The financial and political implications of such change are complex and not yet sufficiently understood. This year, GSA has taken the proactive step of offering two of our journals, *Lithosphere* and *Geosphere*,

as open access to all readers globally. Importantly, the current phase of strategic planning provides an excellent opportunity for the Society to further evaluate the role of open access publishing at GSA in the context of our long-term vision and aspirations.

Lastly, the American Geophysical Union celebrates its centennial in 2019 and associated societies have been invited to participate in their celebration. Leadership explored possible ways to participate and have identified and committed to two exciting ventures. First, we will be offering, jointly with AGU, a three-part series of field trips associated with the AGU Fall Meeting in Washington, D.C. (10–14 December 2018). The trips, led by GSA and AGU members, will address timely geoscience topics, such as ancient tectonics and modern seismicity in the central Appalachians; karst hydrology; paleoclimate and landscape evolution of the Great Valley, Virginia; and environmental and geologic issues concerning the removal of Patapsco River Dam. Secondly, GSA is participating in a “Grand Challenges” publication initiative at AGU. This series of publications, authored by GSA and/or AGU members, will be a set of forward-looking papers that explore opportunities for exciting scientific progress in the geosciences. The papers will be published initially as open access papers in AGU publications or in GSA’s *Geosphere* journal and ultimately will be featured in a digital, jointly sponsored AGU-GSA special publication.

Important changes and exciting growth opportunities are on the horizon for GSA—changes that promise to benefit the membership. It has been a pleasure and honor to serve the Society this year and to be able to participate in the process leading to these changes.



Isabel Patricia Montañez, GSA President

Thank You TO OUR SPONSORS

Your support of the Geological Society of America’s Annual Meeting & Exposition continues a longstanding tradition of serving science and the profession. The Society appreciates your investment in the growth of current and future leaders in the geoscience community. The following list is as of 30 Aug. 2018.

GSA and the Foundation collaborate in a wide range of sponsorships supporting the Annual Meeting, and more: field camp 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 a fifth year of the popular GeoCareers program, supported by a variety of returning and new sponsors. Both this and student/early career networking programs garnered support from local branches of consulting firms, broadening GSA’s range of sponsors.

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.

DOUBLE DIAMOND
ExxonMobil



GOLD



SILVER



BRONZE



CONTRIBUTORS

American Geosciences Institute

Pan GEO

Arizona State University School
of Earth & Space Exploration

Society of Economic Geologists

LETTER FROM THE GSA EXECUTIVE DIRECTOR



Vicki S. McConnell, *Executive Director*

Greetings GSA members,

The GSA staff and I are pleased to submit this report of GSA's fiscal year 2018 operations, including program activities, accomplishments, challenges, and innovations. I continue to work with GSA's elected and nominated leaders to define our mission and provide the best service possible for you and your profession.

I will note that recruitment and renewal of membership rates are decreasing. Thus, membership has dipped. There appears to be several issues here—high percentage of member retirements, early career professionals not joining or staying with GSA after they graduate, and some student programs no longer requiring membership for applications. We are seriously exploring both the cause and effect of decreasing membership.

We have completed a year-long evaluation of the GSA Scientific Division and Integrated Interdisciplinary Group (IIG) governance structures and focuses. We asked each Division to self-evaluate their mission-centric accomplishments, their financial health, their focus, and member support. We are happy to report that, all-in-all, the Divisions are doing well and providing critical input to technical sessions for meetings, travel support, awards of recognition and merit, and communities of geoscientists with similar interests. The IIGs are doing the same and in such a similar manner that one of the recommendations was to simply define IIGs as Divisions. This recommendation was approved by Council and the IIGs have been converted to Scientific Divisions. A driving question for the Divisions was whether they represent the multidisciplinary aspect of the geosciences or are they “splitters.” The overwhelming reply was that Divisions don't really divide, but instead are representative of certain specialties that open up the opportunity for GSA members to interact across many disciplines. If you are not a member of one or more Scientific Divisions I encourage you to consider joining these vibrant scientific communities within GSA.

GSA staff is working with leadership as we develop the strategic plan for the next decade. The planning process has included as many GSA members as possible through surveys and other outreach activities. This effort will conclude in 2019 and define GSA's path for the next decade.

GSA leadership took a hard look at GSA's Professional Code of Conduct and what exactly the code means to a GSA member or participant in a GSA activity. An ad hoc committee made a series of recommendations to GSA Council in May. The two that have the most immediate impact for members are adoption of a Professional Code of Ethics that includes enforcement and consequences of breaches of the code and the approving of an ethics and compliance officer position. The Professional Code of Ethics will be a compilation of all GSA codes of conduct and will include a process for filing complaints, an Ethics Committee for reviewing complaints, and consequences for proven breach of the code. It will fall to the ethics and compliance officer to develop

the processes, provide training to GSA members and staff, serve as meetings ombudsman, and coordinate with other science organizations that are doing similar work. The objective is to assist members in being the most professional and ethical as you can be. The completion of the code and hiring of the officer will occur in the next fiscal year.

The 2017 GSA Annual Meeting and Exposition held in Seattle, Washington, USA was very successful with a record number of abstracts submitted. The GSA Section meetings were all well attended with Rocky Mountain and the Cordilleran Sections teaming up for a co-meeting in Honolulu, Hawaii, USA. We are too early in our first year of open access of *Geosphere* and *Lithosphere* to determine the impact on these journals. This is an excellent opportunity to redefine them to meet the needs of what geoscientists expect from free and fully digital publications.

Our Government Policy Directorate in Washington, DC, was very busy responding to the changes in administration direction and priorities. We had an excellent mix of students, faculty, and industry members attending the Geoscience Congressional Visits Day in September. Our DC staff participates in many forms of policy and advocacy to keep geoscience funded and respected by our national leaders.

One area of GSA operations that does not receive much notice, but is always there in the background, is our Governance. We strive to keep costs down and productivity up when coordinating Council, committees, Scientific Divisions,

Geographic Sections, and Awards activities. We have made significant technological improvements to data management, thus reducing staff time and potential data input error. We are always reviewing the interfaces with our members and the public to improve our communication.

We finished fiscal year 2018 with a healthy ending balance, and our investments have done well over the calendar year.

Please join me in extending a thank you to all the GSA staff. They are thoughtful and innovative contributors to enhancing your membership, benefits, and the geoscientific community.



Vicki S. McConnell, *Executive Director*



■ GSA FISCAL YEAR 2018 OFFICERS

— TERM: JULY 2017–JUNE 2018



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PRESIDENT-ELECT
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GSA FISCAL YEAR 2018 COUNCILORS

TERM: JULY 2014–JUNE 2018



Timothy J. Bralower

Pennsylvania State University
University Park, Pennsylvania, USA



Anke Friedrich

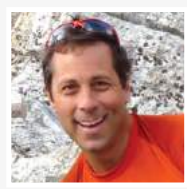
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Stephen G. Pollock

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TERM: JULY 2015–JUNE 2019



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College of William & Mary
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University of Colorado
Boulder, Colorado, USA



Frank J. Pazzaglia

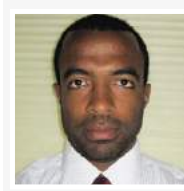
Lehigh University
Bethlehem, Pennsylvania, USA

TERM: JULY 2016–JUNE 2020



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Marjorie A. Chan

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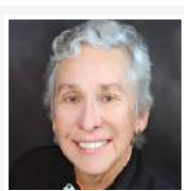
TERM: JULY 2017–JUNE 2021

2017–2018 STUDENT ADVISORY
COUNCIL CHAIR



Carmala N. Garzione

University of Rochester
Rochester, New York, USA



Joan E. Fryxell

California State University–San Bernardino
San Bernardino, California, USA



Suzanne O'Connell

Wesleyan University
Middletown, Connecticut, USA



Erin Barry

EA Engineering, Science,
and Technology, Inc., PBC
Hunt Valley, Maryland, USA

GSA SECTIONS AND SCIENTIFIC DIVISIONS

CONNECTING MEMBERS IN COUNTLESS WAYS



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 Scientific Divisions

Members have access to any of GSA's 21 Scientific 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.

GSA's Scientific Divisions help members stay connected with colleagues worldwide; they provide opportunities for leadership and service, specialty meetings, awards, student support, and development of the GSA Annual Meeting technical program.

Division Changes

In May 2018, the GSA Council approved the recommendation that the GSA Divisions be called GSA Scientific Divisions. Additionally, the Interdisciplinary Interest Groups (IIGs) would formally be transitioned into Scientific Divisions.

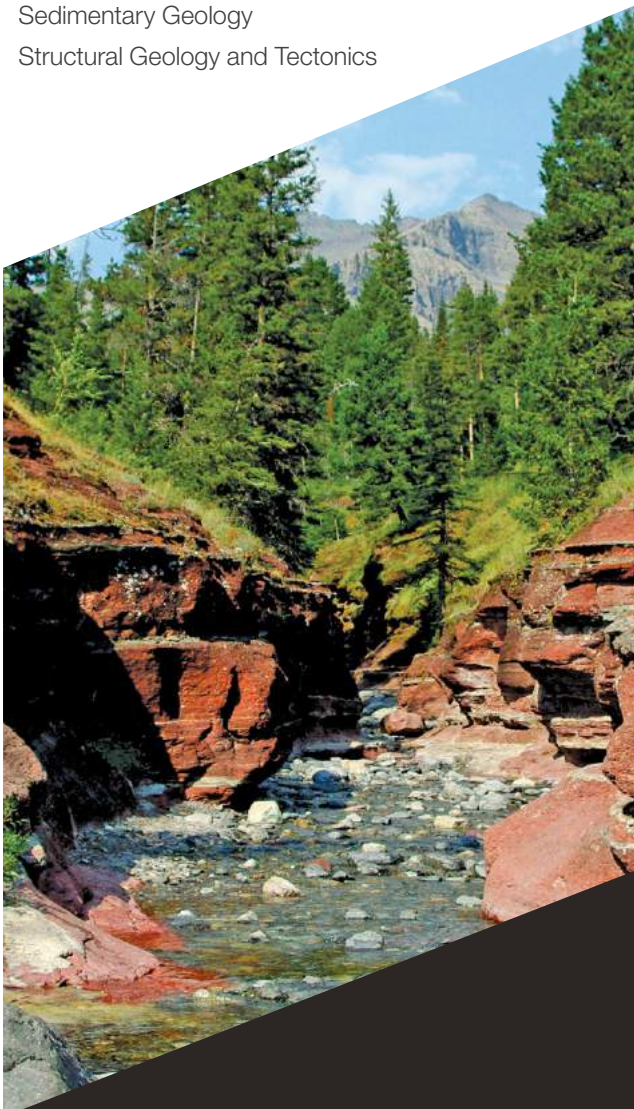
Formerly an IIG, the Continental Scientific Drilling Scientific Division focuses on continental scientific drilling and coring research tools used in many GSA Scientific Divisions and fields. This division promotes collaborative research using continental scientific drilling and coring across communities, presentations on scientific drilling projects to the wider scientific community, and opportunities for students and early career scientists in continental scientific drilling projects.

The newly established Geochronology Scientific Division aims to represent geochronologists of all types, as well as the many geoscientists who use geochronological data. The division focuses on the timing and rates of geological events and processes. These events include mass extinctions, stage boundaries, volcanic eruptions, earthquakes, major floods, and impact events. Processes include tectonic, geomorphic, igneous, metamorphic, sedimentological, biogeochemical, and paleoclimatic processes. From geological to human time scales, geochronology underpins our ability to constrain the rates of processes that present key challenges to societal security and sustainability.

Formerly an IIG, the Soils and Soil Processes Scientific Division works on issues with particular solutions that include land stewardship, water quality and quantity, carbon cycling and paleoclimate reconstruction. The evolving soils community is expanding beyond traditional links with agriculture and pedogenic processes, and (re-)connecting with geosciences. The division heightens the visibility of shallow Earth's processes and invites collaboration between the soils and geosciences communities.

Additional GSA Scientific Divisions:

- Energy Geology
- Environmental and Engineering Geology
- Geoarchaeology
- Geobiology and Geomicrobiology
- Geoinformatics
- Geology and Health
- Geology and Society
- Geophysics and Geodynamics
- 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



**GSA is pleased
to recognize this
milestone**

Anniversary:

The Geology and Society Scientific Division is 15 years old this year. Established in 2003, this division seeks to advance the concept of “geology working for society” by providing GSA members with opportunities to bring together multiple fields of geoscience to address important societal issues.



GSA MEMBERSHIP

WHERE GEOLOGY AND PEOPLE COME TOGETHER



DAVID W. SZYMANSKI

Bentley University
GSA Member since 1997
GSA Fellow since 2017

Without a hint of hyperbole, becoming a member of GSA changed my life. From field camp to the halls of the U.S. Capitol, my journey as a professional earth scientist was made possible by the opportunities and the people of GSA.



KELSI USTIPAK

Badley Ashton America, Inc.
GSA Member since 2011

Membership with GSA has been an invaluable part of my growth as a geoscientist. It is important to me because the people and programs were a great resource to me during uncertain times, and I am committed to being a part of that resource for others in the future.



SUSAN STOVER

Kansas Geological Survey
GSA Member since 2010
GSA Fellow since 2015

GSA membership has enriched my life professionally and intellectually. Whether you are motivated to expand your network of smart, adventurous geoscientists or want to follow up on a research interest that got left behind in graduate school, there is sure to be a committee or division to nurture your interest.

GSA's 23,070 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 21 special interest Divisions, including the most recent—the Geochronology Division—and six regional Sections.

To continually support members, additional member benefits were offered in FY18, including a GIS and data collection application (Mappt Standard subscription), along with credit union membership (Interior Federal Credit Union).

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 journals, and access to GSA GeoCareers programs, along with other membership offerings. GSA student members,

who represent 30% 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, 482 professional members in 34 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.

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
- 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 106 countries with

1896 members residing outside of North America, mostly in the United Kingdom, Australia, Japan, Germany, and China.

GSA International evaluates and recommends international awardees for the GSA Honorary Fellow, International Distinguished Career Award, James B. Thompson Jr. Distinguished International Lectureship, and the Farouk El-Baz Student Desert Research Award, as well as recommending travel grant awards for international students and early career professionals to attend the GSA Annual Meeting.

James B. Thompson Jr. Distinguished International Lectureship

The 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. The 2017 Distinguished International Lecturers were Ross Stein and Ian Simpson Stewart. Stein and his Latin American hosts posted about the South American part of his tour at <http://tumblr.net/earthquake-insights/creating-the-ties-that-bind-breaking-bread-and-sharing-stories-in-latin-america-6661/>. Also a dynamic speaker, Stewart has worked closely with BBC Science to host a number of major television documentaries on the nature, history, and state of the planet. More information about this award, the awarded lecturers, videos from Stein and Stewart, and upcoming lecture tours may be found on the GSA International page of the GSA website.

Farouk El-Baz Student Desert Research Awards

Jennifer Haskell, University of California Davis, and Karem Abdelmohsen, Western Michigan University, received the Farouk El-Baz 2017 Desert Research Awards.

International Honorary Fellows

The GSA Honorary Fellow Award is given to exceptional non-North American geoscientists who live and work outside of North America, and who have distinguished themselves in exemplary scientific investigations. The 2017 Honorary Fellows were Augusto Neri, Istituto Nazionale di Geofisica e Vulcanologia, and Zvi Garfunkel, Hebrew University of Jerusalem.



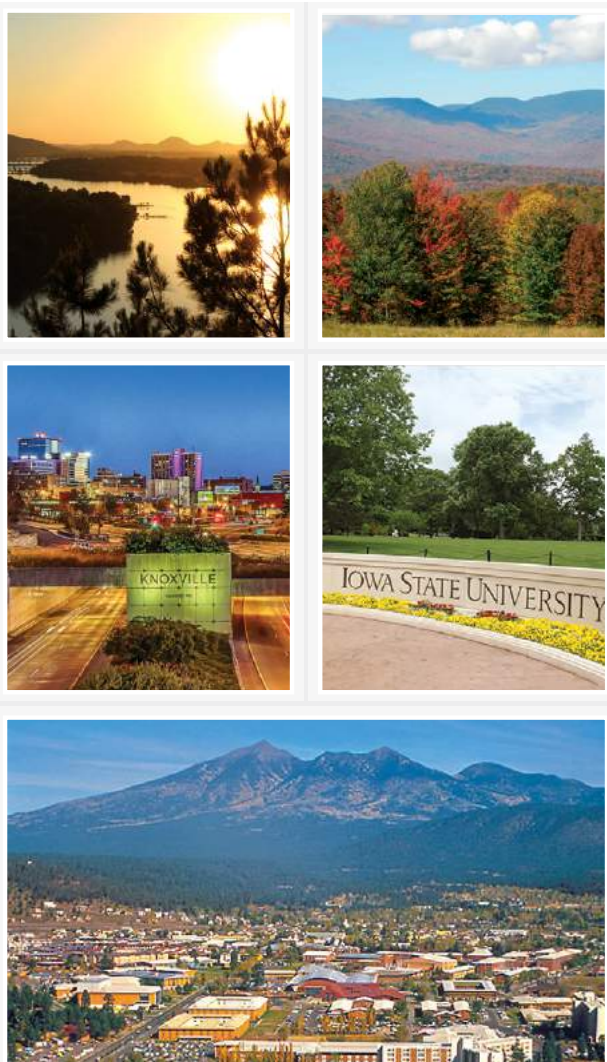
Augusto Neri



Zvi Garfunkel

MEETINGS

CONNECTING THE GEOSCIENCE COMMUNITY



Left to right, SC: Little Rock, Arkansas. Photo by Oliver Beland. **Right:** Burlington, Vermont. Photo by Stephen Wright. **Left:** Knoxville, Tennessee. Photo by Bruce McCamish. **Right:** Ames, Iowa. Photo by Bri Gerke. **Bottom:** Flagstaff, Arizona. Photo credit: findyourspot.com.

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 share 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 2018 (FY18), GSA hosted nine meetings and conferences, bringing together thousands of geoscience professionals and students. The GSA Annual Meeting and Exposition was held in Seattle, Washington, in October 2017. More than 7100 attendees from 54 countries attended, while presenting more than 4800 abstracts over several days. Twenty-one field trips ran and 19 short courses were held. More than 200 companies, organizations, and universities exhibited during the meeting.

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.

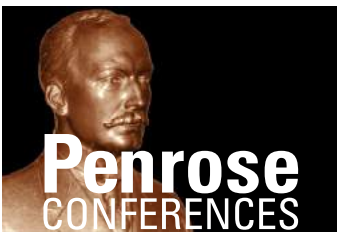
GSA Section Meetings are unique venues for interdisciplinary science and are an important hub for discussing and presenting current research. They provide an excellent opportunity for both professionals and students to attend and participate in technical sessions, field trips, and short courses close to home. The 2018 Section Meetings were held across the country bringing together more than 4300 scientists. Meetings were held in Little Rock, Arkansas (GSA South-Central Section); Burlington, Vermont (GSA Northeastern Section); Knoxville, Tennessee (GSA Southeastern Section); Ames, Iowa (GSA North-Central Section); and Flagstaff, Arizona (joint GSA Rocky Mountain and Cordilleran Sections).



Group photo (courtesy D. Jalufka) in the historic Teatro Mestica in Apiro, Italy.

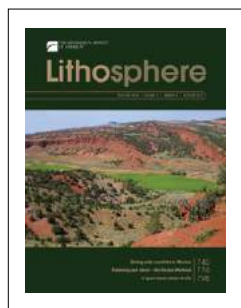
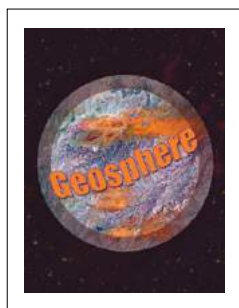
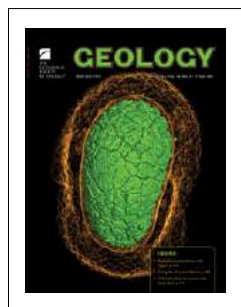
GSA Penrose Conferences and Thompson Field Forums are GSA's premiere small-group meeting and field trip venues for collaborative research around the world. In FY18, GSA held two Penrose Conferences: 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco, Apiro, Marche Region, Italy, and

Advances in Salt Tectonics: Observations, Applications, and Perspective: In Honor of Martin P.A. Jackson, Dead Sea, Ein Boqeq, Israel. One Thompson Field Forum took place—Catastrophic Mega-Scale Landslide Failure of Large Volcanic Fields, Cedar City and Bryce Canyon City, Utah, USA.



PUBLICATIONS

DISCOVER, PROTECT, AND PRESERVE



Journals

The peer-reviewed journals *Geology*, *Geosphere*, *Lithosphere*, and *GSA Bulletin* are published at www.gsapubs.org, through the aggregate GeoScienceWorld, 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. In January 2018, GSA Council made *Geosphere* and *Lithosphere* 100 percent open access as part of its goal of making all GSA journals 100 percent open access in the future. *Geology* is free online for GSA members.

- *GSA Bulletin*, published since 1890, is the definitive geoscience journal. 2018 impact factor*: 4.039; five-year: 4.450.
- *Geology*, published since 1973, is the #1 geology journal for the twelfth year in a row*. 2018 impact factor: 5.073; five-year: 5.451.
- *Geosphere*, published since 2005, encourages innovative publication in all geoscience fields. 2018 impact factor*: 2.811; five-year: 2.741.
- *Lithosphere*, launched in 2009, is the voice for integrated and interdisciplinary tectonics. 2018 impact factor*: 2.766; five-year: 3.195.

GSA Today, GSA's open access science and news magazine for members and the earth-science community worldwide, features peer-reviewed science articles, hot-topic and issue-driven articles, member news, and announcements.

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. 2018 impact factor*: 0.318; five-year: 0.730.

Books

GSA published 11 peer-reviewed scholarly books in fiscal year 2018. The Special Paper series (seven volumes in FY18) is for state-of-the-art treatments of evolving subjects, while Memoirs (one volume in FY18) are intended to remain authoritative references for a number of years. Field Guides (three volumes in FY18) feature guides from field trips held at GSA and other meetings. Legacy series, still available online and in the GSA Store, include Reviews in Engineering Geology and Maps and Charts. The Publications Department produces an annual calendar and publishes *Memorials* to deceased GSA members (open access back to volume 1 at www.geosociety.org).

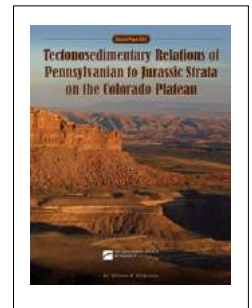
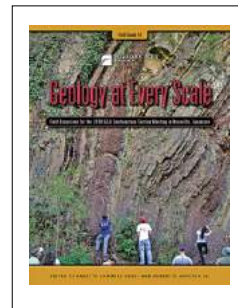
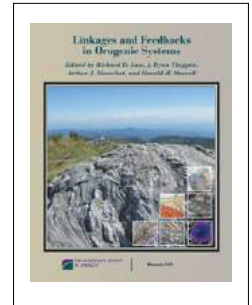
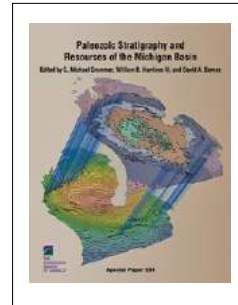
GSA's e-book collection includes Special Papers, Field Guides, Memoirs, and Reviews in Engineering Geology books back to volume 1 from each series. Individual papers from volumes in progress are posted "Online First" as they are ready. Other digitized books available include Engineering Geology Case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

Geofacets

GSA participates in 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 fifth time at the GSA Annual Meeting in Seattle. The editor-led workshop covers many aspects of the process of preparing research for submission to scholarly journals, including the importance of contributing as a reviewer.

*From the 2018 Clarivate Analytics Journal Citation Reports, a means to evaluate a journal's impact based on the number of citations its papers receive each year; GSA Special Papers, Memoirs, and Reviews in Engineering Geology volumes are tracked in its Book Citation Index.

■ EDUCATION AND OUTREACH

NURTURING CURRENT AND FUTURE GENERATIONS

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 events connect students with professionals through a career workshop, career information session, mentor roundtables, and a career pathways panel. This event provides students and early career professionals with a well-rounded understanding of careers in a diversity of sectors including industry and government. More than 270 students and early career professionals participated in these events at the 2017 Annual Meeting. A résumé clinic provided guidance to 28 participants.

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 34 mentors. The Networking Reception engaged 51 mentors who spoke with students and early career professionals, and the Career Pathways Panel recruited 28 mentors for its mentor roundtable sessions. Overall, over 700 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. This year 70 students were funded to attend the 2017 Annual Meeting. At the meeting, students were paired with mentors, connected to GSA leadership, and learned about participation in student opportunities. To date, OTF has provided travel awards, membership, mentors, and meeting registration to more than 500 students nationwide. Forty-five percent of OTF students are from underrepresented minority groups, 77% are female, 62% are undergraduate students, 21% non-traditional students, and 48% are from first generation backgrounds, meaning they are the first in their families to attend college.

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 599 students and early career professionals and recruited 73 mentors in 2018. A contribution by the Northeastern Section helped these mentoring events reach more attendees.

The Northeast Urban Metro Travel Award 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 two students were awarded grants. A total of 20 students have been awarded grants since 2014.

The Geological Society of America® GEOCAREERS



Field and Research Experiences

GeoCorps™ America, National Park Service, Geoscientists-in-the-Parks, 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 63 GeoCorps projects in 2017, and an estimated 37 in 2018. For the National Park Service (NPS) and its Geoscientists-in-the Parks (GIP) program, GSA recruited for 140 projects in 2017 and an estimated 142 in 2018. 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.

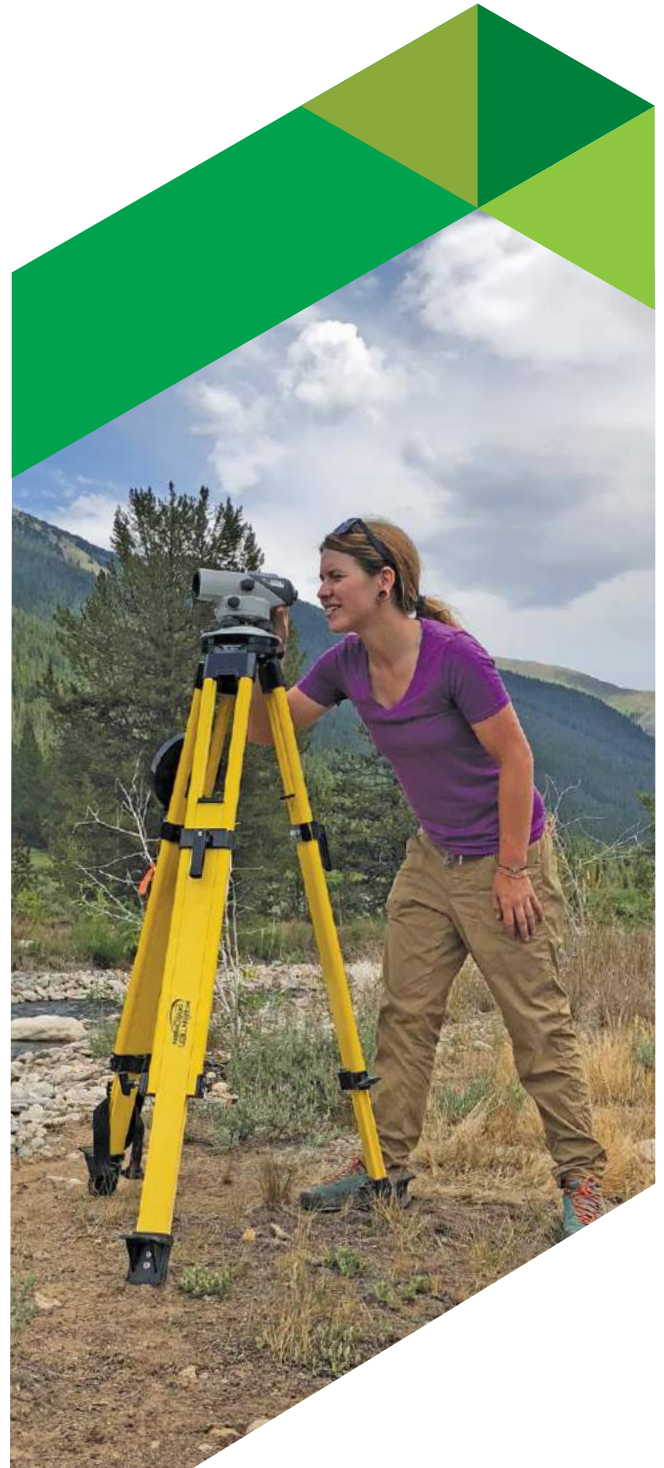
At the 2017 GSA Annual Meeting, 21 participants from GeoCorps and GIP presented their projects in sessions related to GeoCorps/GIP and geoscience on public lands.

GeoCorps Enterprise is an 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 has identified some potential industry partners, and will move toward entering into contracts to offer positions with some of them in 2019.

GSA/ExxonMobil Field Camp Programs

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 2018, the \$10,000 award went to the University of Houston Field Camp.

The GSA/ExxonMobil Bighorn Basin Field Award offers a group of students and faculty an introduction to integrated basin and petroleum systems analysis and is taught by ExxonMobil staff. In August 2018, three faculty, seven graduate students, and 16 undergraduate awardees will head to the Bighorn Basin, Wyoming.





GSA Foundation Field Camp Programs

The GSA Field Camp Scholar Award is a \$2000 award to students to attend a field camp of their choice. A total of 10 students were awarded based on their economic and financial need, merit, and diversity.

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, more than 28,600 EarthCache sites have been published at Geocaching.com, representing over 200 countries. EarthCache finds have been logged more than 5.1 million times by more than half a million individuals. At the 2017 Annual Meeting, GSA hosted a series of presentations about Pacific Northwest geology, which were aimed at the geocaching community, educators, and the general public, with the goal of engaging more people in the EarthCache program and in the geosciences. These presentations were well received, and a similar program is planned for the 2018 Annual Meeting.

Professional Development

The GeoTeachers™ Program & Related K–12 Activities

The GeoTeachers Program was created to provide professional development workshops and field experiences for K–12 teachers with little to no geoscience background.

For 2017–2018, the primary focus of GeoTeachers was to implement a new model focused on higher attendance/lower cost workshops targeted to local teachers, with one workshop to be held or planned in each GSA Section by the end of 2019. For 2018, 5-day workshops are scheduled for Flagstaff, Arizona, and Colorado Springs, Colorado, in late summer and a shorter workshop tied to the Indianapolis Annual Meeting in November. A \$10,000 grant to support the Colorado workshop was awarded by the El Pomar Foundation in June 2018, and may be used to cover program costs in the current year or as seed money for a 2019 workshop.

Public presentations and sharing of teaching materials were performed at the Hoosier Association of Science Teachers, Inc. (HASTI) conference in Indianapolis, as well as at the GSA South-Central and Southeastern Section Meetings. The GeoTeachers program coordinator met with the Niswonger Foundation of Greeneville, Tennessee, to discuss a collaboration for a 2019 field workshop in Tennessee.

GSA introduced the GSA K–12 Experience as a pilot program at the 2017 GSA Annual Meeting. Four classes (~100 students and teachers) visited the exhibit hall and poster session; highly positive feedback led to plans to expand this program at the 2018 GSA Annual Meeting. At the 2017 American Geophysical Union (AGU) Fall Meeting, the GeoTeachers program coordinator participated in an invited education panel and

co-lead an AGU/ National Earth Science Teachers' Association Geophysical Information for Teachers (GIFT) field trip about the geology of New Orleans. GSA further collaborated with AGU by staffing a booth at the 2018 USA Science and Engineering Festival in Washington, D.C., which provided geology outreach to thousands of educators, parents, and families. Presentations at the 2017 GSA Annual Meeting, 2018 GSA South-Central Section Meeting, and 2017 AGU Fall Meeting maintained the professional profile of the program in the academic community in 2017–2018.

Short Courses

The 2017 Annual Meeting offered 19 short courses for 440 attendees, 53% of whom were students. This percentage continues to remain high annually. The average fee per course remains low at \$65 in order to encourage student attendance.

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 nearly 11,000 geoscientists more than US\$17,000,000 to conduct research. For FY18, 730 students applied for funding, and 381 were awarded a grant (52%). The total amount of money granted was US\$778,594. The average grant amount awarded in 2018 was US\$2044. GSA's current three-year National Science Foundation grant will support the Graduate Student Research Grant Program through 2019.



■ GOVERNMENT AFFAIRS AND PUBLIC POLICY

BRIDGING THE GEOSCIENCES AND PUBLIC POLICY

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 Geoscience Congressional Visits Day, Climate Science Day, and visits by members of the Geology and Public Policy Committee. Participants begin with a half-day orientation that covers 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.

GSA led the organization of Geosciences Congressional Visits Day on 12–13 September, where geoscientists from a range of disciplines and sponsoring organizations came together to conduct visits to 70 congressional offices. Four GSA Divisions sponsored students to attend, joining GSA leadership, staff, and scientists who applied through GSA's new online application process. Sylvia Nicovich, a student sponsored by the Rocky Mountain Section, described the experience, "I had an incredibly enlightening experience, truly learned a ton, and was reassured that my voice (and all those I came to represent) really does matter."

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!

GSA Testifies in Support of Geoscience Funding

GSA submitted testimony in support of increased funding for the National Science Foundation (NSF), National Aeronautics and Space Administration (NASA), and U.S. Geological Survey (USGS) for Fiscal Year 2019. GSA is an active member of coalitions that also submitted testimony and letters in support of these agencies, including the Coalition for National Science Funding (CNSF), the Coalition for Aerospace and Science, the Energy Sciences Coalition, and the Task Force on American Innovation.

GSA engaged in successful campaigns for Congress to raise the budget caps for FY18 and FY19, and to make investments in science and engineering research a top priority when allocating additional funding.

GSA on the Hill

In September 2017, GSA helped organize the USGS Coalition Awards and Reception, during which awards were presented to Reps. Suzan DelBene (D-WA) and Mark Amodei (R-NV) for their support of the agency.

GSA showcased geoscience research at Capitol Hill exhibits that drew hundreds of congressional members, staff, and executive branch leaders. At the 24th Annual CNSF Exhibition in support of National Science Foundation research on 9 May, GSA joined with the American Geosciences Institute (AGI) and the American Geophysical Union (AGU) to cosponsor an exhibit featuring CubeSats. Drs. Xinlin Li and Dan Baker from the University of Colorado, Boulder, spoke about the Colorado Student Space Weather Experiment.

GSA co-sponsored briefings to provide geoscience information to congressional members and staff during the year, including:

- Gravity Never Sleeps: Landslide Risk across the Country;
- Extreme Rain Events and Flooding: Research, Modeling, and Response;
- Volcano Monitoring: Reducing the Risks of Volcanic Hazards for Society;
- Sizing Up Sinkholes: Science and Technology to Mitigate Karst Hazards; and
- Critical Minerals: Geoscience That Underlies Our Economic Prosperity.

GSA Science Policy Fellow

GSA Science Policy Fellow Lindsay Davis began a one-year term as the “in-house” fellow in September 2017, working with GSA’s Director for Geoscience Policy to bring science and scientists into the policy process. Lindsay assisted with planning and facilitation of Congressional Visits Days, wrote blog posts to keep GSA members updated on policy, represented GSA at professional events, covered hearings on relevant geoscience legislation and programs, helped plan and co-facilitate a briefing for congressional staff, and attended conferences on behalf of GSA.



GSA Science Policy Fellow Lindsay Davis moderates a congressional briefing on volcanic hazards.

GSA-USGS Congressional Science Fellow



2017–2018 GSA-USGS Congressional Science Fellow Melanie Thornton.

Kirstin L. Neff extended her term as the GSA-USGS Congressional Science Fellow in the office of Sen. Martin Heinrich (D-NM) through the end of 2017. The 32nd GSA-USGS Congressional Science Fellow, Melanie R. Thornton, spent a year working as a staff member for Sen. Tom Udall (D-NM).

New and Updated Position Statements

During the year, GSA Council adopted two new position statements: “Removing Barriers to Career Progression for Women in the Geosciences” and “Geosciences and Energy Policy.”

Council adopted minor revisions to six statements: “Promoting Earth Science Literacy for Public Decision Making,” “Critical Minerals and Materials,” “Visas for Foreign Scientists and Students,” “Geoscience and Natural Hazards Policy,” “Geoscience Data Preservation,” and “Data Access.”

In addition, Council endorsed a joint statement by the Seismological Society of America and American Geophysical Union entitled “The Capability to Monitor the Comprehensive Nuclear-Test-Ban Treaty (CTBT) Should be Expanded, Completed, and Sustained.”

State and Local Policy Engagement

GSA Director for Geoscience Policy Kasey White attended the National Conference of State Legislators Legislative Summit in Boston in August 2017. GSA joined with other geoscience societies to provide geoscience information to state policymakers.



The Foundation

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.

2017–2018 Highlights

In FY18, the GSA Foundation received contributions and pledges of over \$1,752,200 from individual GSA members and corporations. Our success was assured by 7226 separate gifts at all levels—the largest number in the Foundation’s 38-year history, and a testament to the enthusiasm and dedication of GSA members and supporters.

The responsibilities of the Foundation are twofold: (1) **to support GSA programs** and (2) **to preserve the Foundation’s assets for the future**. With respect to the first, we were able to provide GSA with \$915,462 to support its programs. With regard to the second, the Foundation’s assets ended the year at a historic high—more than \$21.8M as compared with \$19.9M at the end of FY17.

In FY18, member contributions supported new funds to include:

- Research Grant—Lincoln S. and Sarah W. Hollister Graduate Student Research Awards Fund
- Research Grant—Dr. Thomas C. Winter Graduate Student Research Award Fund.

We wish to recognize the continuing support of Sally and Bob Newcomb for GeoCorps positions at Denali National Park and Charlie Ross for his ongoing, substantial support of his Graduate Student Research Grant Fund. These are just two of the many generous donors who truly help sustain our work. We 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.

In light of corporate funding cuts for field camp scholarships, and recognizing how vital it is to continue helping students attend field camp, GSA Members responded so strongly to our field camp campaign that we were able to provide ten scholarships to help students attend field camps of their choice. We are expanding our efforts to secure funding on a continuing basis for this purpose.

Corporate partnerships supported a fifth year of the GeoCareers Program, which continues expanding with year-round resources for students and early career professionals and a presence at section meetings. We were pleased to have more local companies participate in the GSA Annual Meeting in Seattle, in programs like GeoCareers and networking receptions, with both sponsorship and mentors.

We recognized our Penrose Circle-level donors at the Penrose Circle and Student Awards Reception during the 2017 Annual Meeting. The combined event provides an opportunity for Penrose Circle donors to see the impact of their support, by meeting and talking with the student award recipients.

In 2017, the Foundation had 1122 student donors. At the 2018 section meetings, we recognized this dynamic group with a token of thanks and asked the students to vote on their favorite name for this giving circle. “Tektonikos: Building the Future” was selected and the tagline recognizes how essential students are to the future of the geosciences, with a new logo to represent the group.

In 2018, the Foundation unveiled newly designed materials for our Pardee Legacy Circle, which recognizes those who have included the Foundation in their estate plans. We sent the materials out to donors ages fifty-five and over. In response, three donors committed to including the Foundation in their estate plans and three donors confirmed their previous commitment. We are excited to continue engaging with those who have already committed and those who are interested in learning more.

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.

We 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) for information and ideas regarding ways you can make a philanthropic impact for GSA and the geosciences.

John W. Hess,
GSA Foundation President

Wesley Ward, *Chair*,
GSA Foundation Board of Trustees

■ STEWARDSHIP AT GSA HEADQUARTERS

GSA HEADQUARTERS

The Campus Vision Committee charged with evaluating a variety of options for GSA headquarters and locations has been put on hold as we work through the strategic planning process. Any major changes to either the building or the location must be incorporated into the overall directions for GSA. These types of infrastructure changes take time and upfront resources.

The two-year plus floodplain restoration work conducted by the city of Boulder on Wonderland Creek, which runs through the southwest edge of the GSA campus, is now complete, including extensive landscaping and planting. The peace and quiet of the neighborhood and working environment has been restored. We are thankful for the flood mitigation work as it adds additional security to the headquarters location.

GSA presently hosts all the servers for our digital and web-based operations in-house. We are looking at a considerable cost to upgrade the servers and system when the warranties

expire in 2019. After researching our options over the last two years, our decision is to migrate most of our system servers to a cloud-based format by the end of fiscal year 2019. The urgency to be as secure and redundant as possible was exacerbated this June when a broken sprinkler head flooded two floors of the building, including leaking into the server room before the sprinkler system could be disengaged. We did not sustain any permanent damage to the servers, but it came very close.

Fiscal year 2018 saw the completion of the roof replacement of the west wing. No other major capital improvements were scheduled or necessary.



GSA OPERATIONS REPORT

GSA AUDIT REPORT SUMMARY

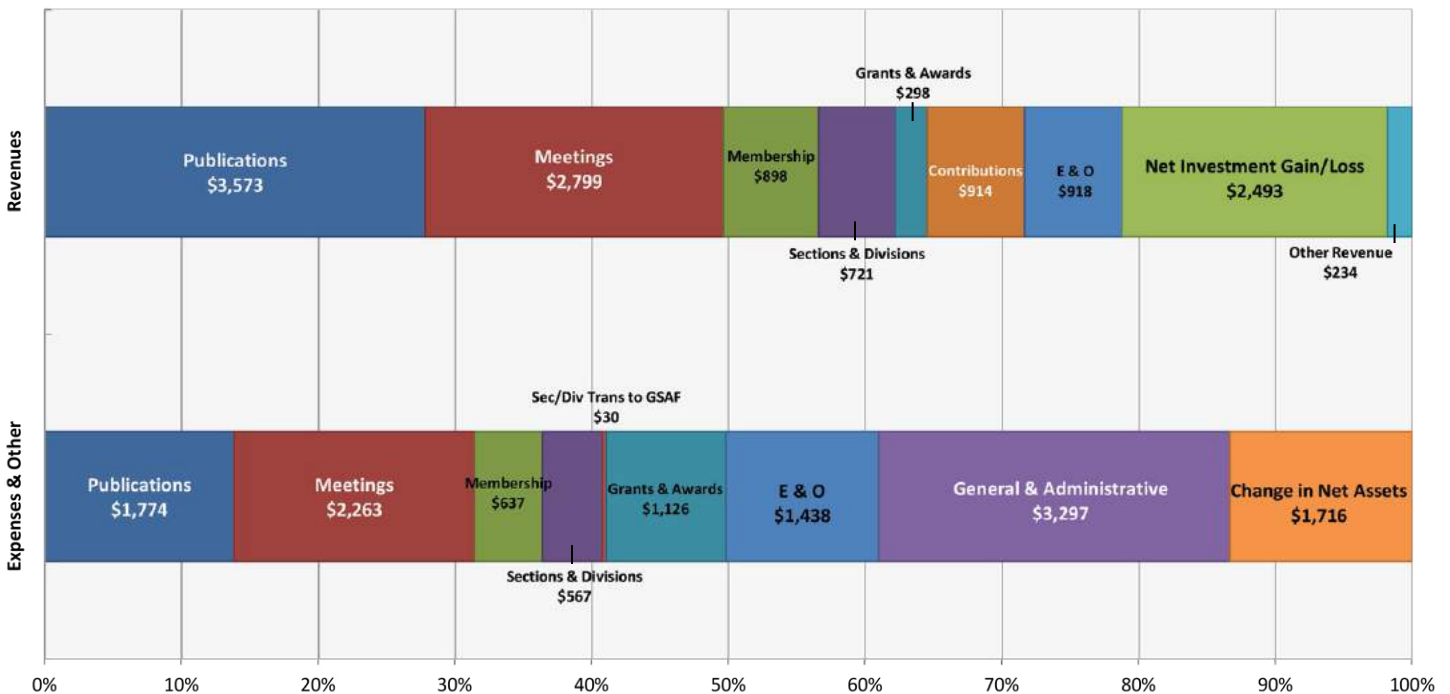
Fiscal Year 2018 (FY18) ended with the change in net assets before investment earnings \$994 thousand below Fiscal Year 2017 (FY17). This result is primarily from net investment portfolio market gains that are \$753 thousand below the stronger market returns in FY17 and net returns from operations \$241 thousand below FY17. The operations change is primarily related to meetings activity during the year. With many significant ongoing changes to operations, the results reflect 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 FY18 and issued an unqualified opinion.

For FY18, the Society had net investment income of \$2.49M compared to an investment gain in FY17 of \$3.25M. This change principally reflects a market slowdown after strong growth through FY17.

GSA Audit Report Summary year ended 30 June 2018 (in thousands)



A full copy of the combined audit report can be accessed at http://www.geosociety.org/documents/gsa/about/fiscal/fy18/audit_report_fy18.pdf.
The Treasurer's report can be accessed at http://www.geosociety.org/documents/gsa/about/fiscal/fy18/treasurer_report_fy18.pdf.

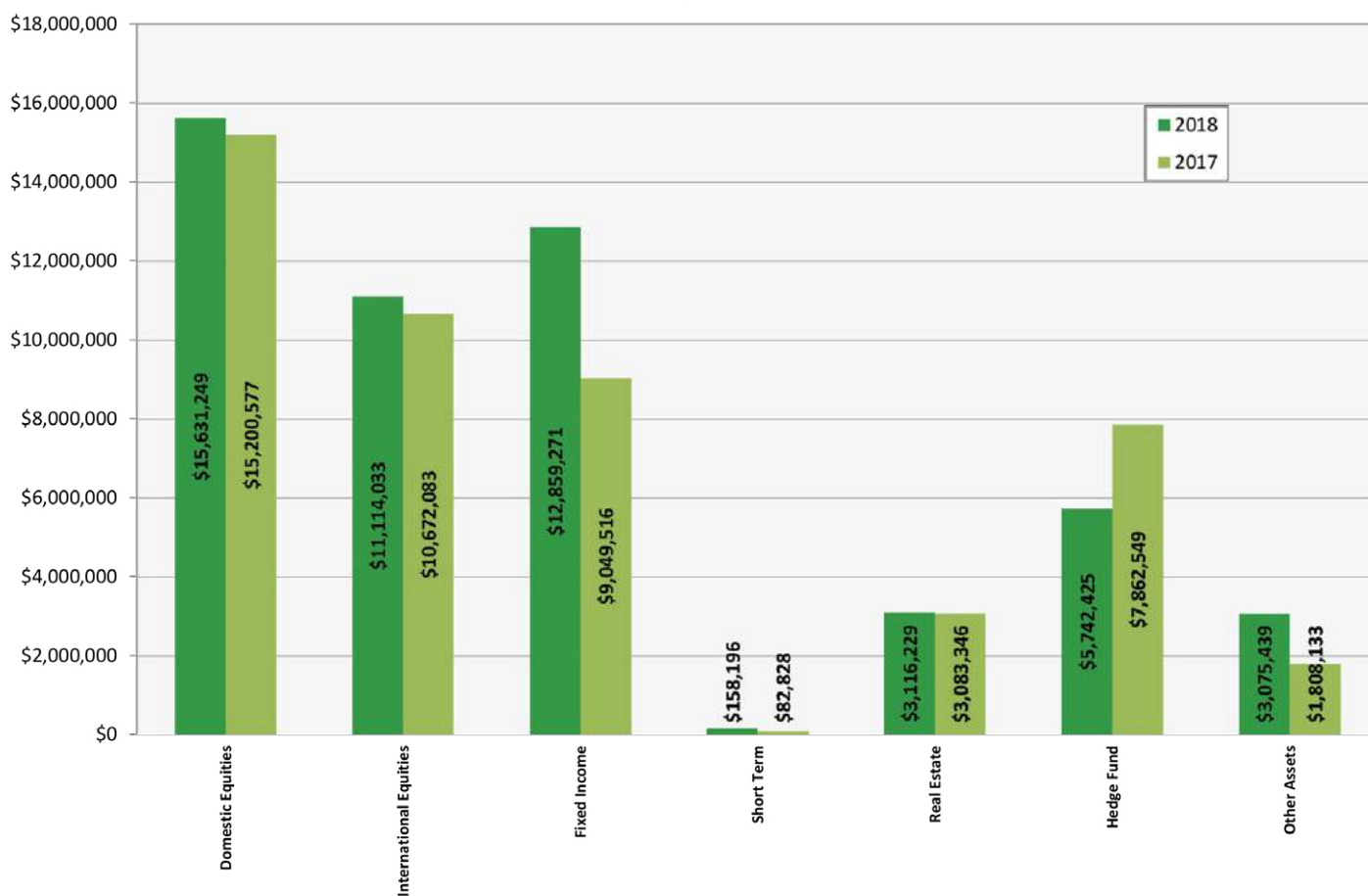
GSA/GSAF COMBINED INVESTMENT

PORTFOLIO REPORT

During FY18, the combined investment portfolio in total increased \$3.86M (8.1%) net of a GSA budgeted \$925 thousand draw. The graph presented is for the combined investment portfolio and excludes a separately managed GSA Foundation 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 FY18, the joint Investments 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 Investments Committee continues to follow an investment strategy of diversification among investment asset classes within strategic allocation targets.

GSA and GSA Foundation Jointly Managed Investment Portfolio (in thousands) 30 June 2018



GSA/GSAF COMBINED INVESTMENT

PORTFOLIO REPORT

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

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

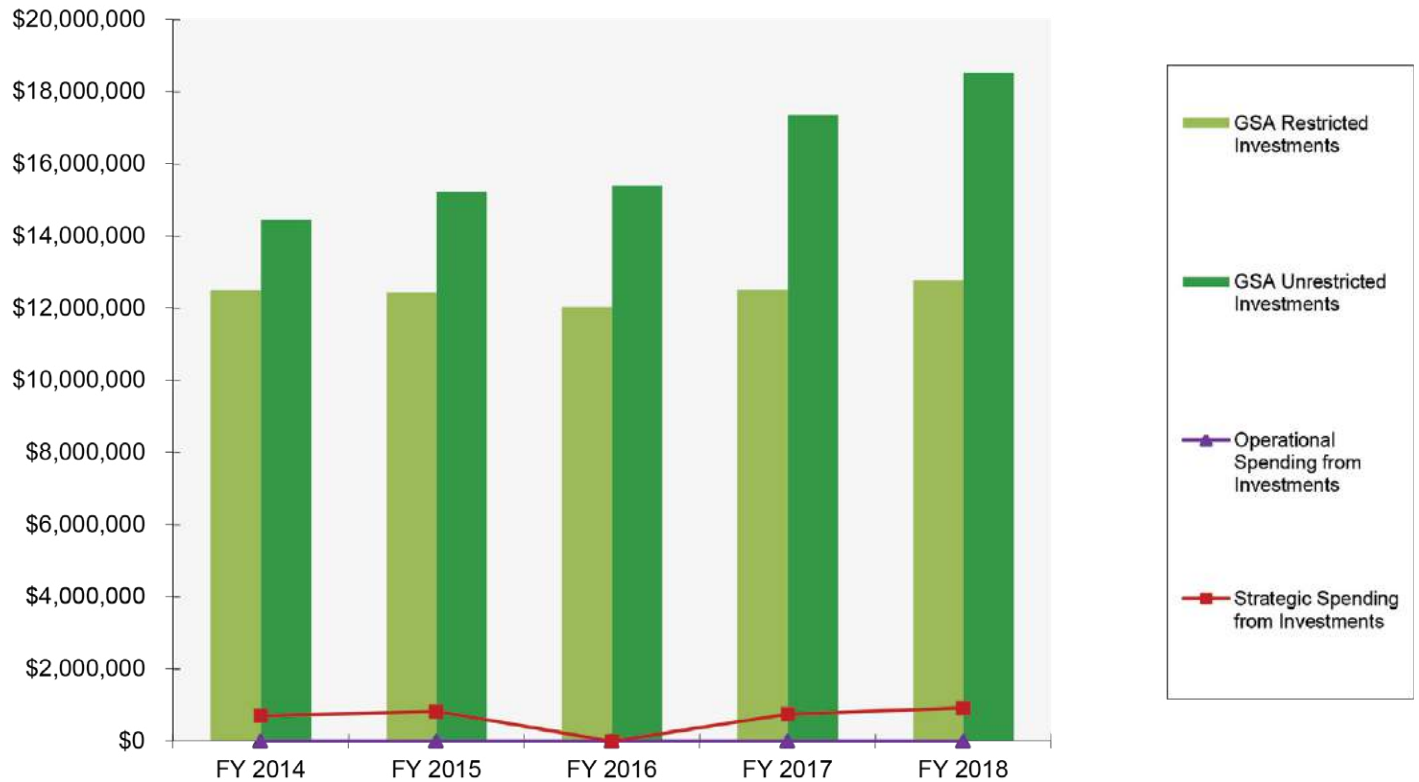
Unrestricted funds are vital to the future of the Society because they can be used where Council designates there is greatest need. In recent years, these funds have supported strategic projects such as Penrose Conferences, government affairs, diversity programs and staffing, international programs, 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 FY04 and then approved spending unrestricted funds for strategic programs beginning in FY06. 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 Richard Berg, treasurer, and Carl P. Fricke, GSA Investments Committee chair, for service to the Society and preparation of the financial and investment data included in this report.



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

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	Geologica Belgica (GB)	Minnesota Ground Water Association (MGWA)
American Association of Petroleum Geologists (AAPG)	Geological Association of Canada (GAC)	National Association of Black Geoscientists (NABG)
American Geophysical Union (AGU)	Geological Society of Africa (GSAF)	National Association of Geoscience Teachers (NAGT)
American Institute of Professional Geologists (AIPG)	Geological Society of Australia (GSAus)	National Association of State Boards of Geology (ASBOG®)
American Quaternary Association (AMQUA)	Geological Society of China (GSC)	National Cave and Karst Research Institute (NCKRI)
American Rock Mechanics Association (ARMA)	Geological Society of London (GSL)	National Earth Science Teachers Association (NESTA)
Association for the Sciences of Limnology and Oceanography (ASLO)	Geological Society of South Africa (GSSA)	National Ground Water Association (NGWA)
American Water Resources Association (AWRA)	Geoscience Information Society (GISIS)	Nepal Geological Society (NGS)
Asociación Geológica Argentina (AGA)	Geoscience Society of New Zealand (GSNZ)	Paleontological Research Institution (PRI)
Association for Women Geoscientists (AWG)	German Geological Society (GV)	Paleontological Society (PS)
Association of American State Geologists (AASG)	Groundwater Resources Association of California (GRA)	Seismological Society of America (SSA)
Association of Earth Science Editors (AESE)	History of Earth Sciences Society (HESS)	Sigma Gamma Epsilon (SGE)
Association of Environmental & Engineering Geologists (AEG)	International Association for Geoscience Diversity (IAGD)	Sociedad Geológica Mexicana, A.C. (SGM)
Association of Geoscientists for International Development (AGID)	International Association for Promoting Geoethics (IAPG)	Società Geologica Italiana (SGI)
Blueprint Earth (BE)	International Association of Emergency Managers (IAEM)	Society for American Archaeology (SAA)
The Clay Minerals Society (CMS)	International Association of GeoChemistry (IAGC)	Society for Environmental Geochemistry and Health (SEGH)
Colorado Scientific Society (CSS)	International Association of Hydrogeologists (IAH)	Society for Mining, Metallurgy & Exploration (SME)
Council on Undergraduate Research Geosciences Division (CUR)	International Medical Geology Association (IMGA)	SEPM (Society for Sedimentary Geology)
Cushman Foundation (CF)	International Society for Aeolian Research (ISAR)	Society for the Preservation of Natural History Collections (SPNHC)
Environmental & Engineering Geophysical Society (EEGS)	Israel Geological Society (IGS)	Society of Economic Geologists (SEG)
European Association of Geoscientists & Engineers (EAGE)	Karst Waters Institute (KWI)	Society of Exploration Geophysicists (SEG)
European Geosciences Union (EGU)	Microanalysis Society (MAS)	Society of Vertebrate Paleontology (SVP)
Geochemical Society (GS)	Mineralogical Association of Canada (MAC)	Soil Science Society of America (SSSA)
	The Mineralogical Society (MS)	Western Interior Paleontological Society (WIPS)
	Mineralogical Society of America (MSA)	



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