FROM THE EXECUTIVE DIRECTOR

Dear AGI Foundation Trustees,

Best wishes for the upcoming holidays and a prosperous and happy 2018!! As 2017 comes to a close, I want to thank all of the trustees who have helped make the past year successful for AGI and for the Foundation. Your commitment to the mission has taken many forms including your time, advice and leadership, serving on various committees, attending Foundation meetings, providing potential donor contacts, identifying prospective new trustees, and personally donating to the Foundation and AGI directly. On behalf of the Foundation and personally, your efforts are deeply appreciated and AGI would not be the fine organization it is today without the selfless efforts of both our current and past trustees.

Our priorities in 2018 will remain the same. The Foundation fundraising emphasis will be to complete the challenge grant effort. These funds will be used to support the efforts of AGI’s Center for Geoscience and Society. In addition, we hope to engage the Foundation’s Development Committee more effectively and use them effectively to advance support of the Center with a broader base of financial support. This will involve some innovative approaches to a new cadre of prospective supporters. I am pleased to announce that Nick Tew, State Geologist of Alabama/Oil and Gas Supervisor, and Jeffrey Boettiger, Vice President — Sales & Commercial for Dallas/Fort Worth, Schlumberger, have agreed to lead the next stage of the Center’s capital campaign.

In closing, enjoy the holiday season with your families and loved ones, stay healthy and get ready for an exciting 2018.

Regards,

Pat (P. Patrick Leahy)

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2 Center Campaign Update
3 Center’s Fundraising Campaign
4 Education Accomplishments
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CENTER CAMPAIGN UPDATE

AGI FOUNDATION DEVELOPMENT COMMITTEE WELCOMES JEFFREY BOETTIGER, CENTER’S CAMPAIGN CO-CHAIR

AGI Foundation Development Committee is pleased to announce that Nick Tew, State Geologist of Alabama/Oil and Gas Supervisor, and Jeffrey Boettiger, Vice President — Sales & Commercial for Dallas/Fort Worth, Schlumberger, have agreed to lead the next stage of the Center’s capital campaign.

Jeffrey Boettiger, Vice President — Sales & Commercial for Dallas/Fort Worth, Schlumberger

Jeffrey Boettiger began his career with Schlumberger as a technical sales engineer in 2002. His Schlumberger career has included operations and sales management positions throughout North America. From January 2014 to December 2017 he has been the North America Industry Affairs Manager for Dallas/Fort Worth, Schlumberger, and is pleased to announce that he has joined the AGI Foundation Development Committee as Co-Chair.

© Softlight CINEMA Productions, photo by Melvin Dixon

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CENTER’S FUNDRAISING CAMPAIGN

AGI’s Center for Geoscience and Society raises awareness of the importance of the geosciences by reaching out to individuals and groups who are not professional geoscientists. This includes federal, state, and local decision makers; educators in non-geoscience disciplines; and/or professionals in industries that may not seem directly connected to the geosciences, such as insurance and manufacturing.

The Center’s primary programs include:

The Critical Issues Program supports well-informed public policy by providing scientific, fact-based information and facilitating dialogues between the geoscience community, decision makers at all levels, and other key stakeholders. The Critical Issues Program produces a suite of highly-regarded resources to accomplish its objective including:


b) Critical Issues webinars — free, important, timely discussions that can be attended interactively on-line and/or viewed later through the internet.

c) Critical Issues Forums — workshop-style discussions between geoscientists and decision makers about major policy issues.

The Education Resources Network (www.americangeosciences.org/center-for-geosphere) provides K-12 educators with a broad collection of curricula, classroom activities, teacher development resources, science education standards, virtual field trips, teaching ancillaries, and much more across the full spectrum of geosciences.

In addition to the Education Resources Network website, the Center’s activities in education work to extend AGI’s products and services in several ways, such as:

a) Supporting geoscience education through teacher professional development workshops and courses.

b) Webinars, especially focusing on the implementation of the Next Generation Science Standards in Earth and Space science.

c) Development of materials with various partners, such as NASA and the Department of Energy, and of several key geoscience education topics, such as scientific visualizations and using models in science teaching.

Total Campaign Contributions (October 2015–December 2017)
AGIF Board Appeal (incl. pledges) $1,364,407.64
Total raised: $1,762,506.67

List of Corporate Donors:
Anadarko
ConocoPhillips
ExxonMobil
FreePort-MacMoRan

Newmont Mining
Schlumberger Limited
Shell
TGS

Boettiger, continued from page 1

and will assume the role of Vice President of Sales & Commercial for Dallas/Fort Worth stated in January 2018.

Jeffrey serves as a member of IPAA, SPE, AADE, and API. He also serves on the Board and Executive Committee of Junior Achievement of Southeast Texas, as a Board Member of IPAA/PESA Energy Education Centers, and as a member of multiple charitable organizations including the Knights of Columbus. Jeffrey holds a Bachelor of Arts in Economics from Austin College. He is married and has two daughters.

Thank You for Supporting #GivingTuesday — the Wallace Scholarship Fund Campaign

AGI would like to thank all trustees who donated to the Wallace Scholarship Fund during our most recent #GivingTuesday campaign. Thanks to your generous assistance, we raised a total of $7,125. During this year’s crowdfunding drive we had a great increase in terms of new donors (70%) and AGI staff participation (30%).

If you’d like to support women geoscientists, please feel free to contribute directly at: https://agi.networkforgood.com/projects/41896-support-women-geoscientists
CRITICAL ISSUES ACCOMPLISHMENTS

Greater website traffic to the website as new material is added
» The Critical Issues website drew more than 35,000 visits in both July and August 2017; this is an increase of about 20,000 views per month compared to July and August 2016.

» FAQs and Maps and Visualizations account for much of the growth.

» Case Studies and Factsheets are being added to highlight specific geoscience topics of particular relevance to state and local decision makers.

» With support from the AAPG Foundation, we are developing a series of factsheets on “Petroleum and the Environment,” which will be published in 2018.

Continued success for webinars
» Our July 2017 webinar on “Planning for Coastal Storm and Erosion Hazards” drew 807 registrants; and 507 people attended on the day. The recording of the webinar has drawn more than 380 additional views.

» State and local agency personnel — our target audience — continue to account for almost 40 percent of webinar attendees, more than any other employment sector.

Published a report on the AGI Critical Issues Forum, “Addressing Changes in Regional Groundwater Resources: Lessons from the High Plains Aquifer”

» Videos of 10 presentations from the Forum, plus a summary video, can be viewed at https://www.americangeosciences.org/policy/ci-forum-2016/presentations.

CRITICAL ISSUES WEBINARS 2016-PRESENT (AS OF 4/30/2017)

<table>
<thead>
<tr>
<th>Webinar</th>
<th>Date</th>
<th>Registrants</th>
<th>Attendance</th>
<th>Later views of video*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 Webinars</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Building the Modern World</td>
<td>August</td>
<td>666</td>
<td>305</td>
<td>302</td>
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<tr>
<td>Planning for Coastal Storm and Erosion Hazards</td>
<td>July</td>
<td>807</td>
<td>507</td>
<td>384</td>
</tr>
<tr>
<td>State Responses to Induced Earthquakes</td>
<td>April</td>
<td>813</td>
<td>372</td>
<td>714</td>
</tr>
<tr>
<td>Assessing, Mitigating, and Communicating Flood Risk</td>
<td>Feb.</td>
<td>797</td>
<td>468</td>
<td>820</td>
</tr>
<tr>
<td>2016 Webinars</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Induced Seismicity - 2016 Kansas Update</td>
<td>Nov.</td>
<td>N/A</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Desalination as a Source of Fresh Water</td>
<td>Sept.</td>
<td>366</td>
<td>185</td>
<td>760</td>
</tr>
<tr>
<td>Data as a National Asset for Decision-Making (Joint with Advances in Earth Science Consortium)</td>
<td>July</td>
<td>284</td>
<td>125</td>
<td>281</td>
</tr>
<tr>
<td>Offshore Energy (Joint with Advances in Earth Science Consortium)</td>
<td>June</td>
<td>140</td>
<td>125</td>
<td>453</td>
</tr>
<tr>
<td>The Science &amp; Supply of America’s Critical Minerals and Materials (Joint with Mineral Science &amp; Information Coalition)</td>
<td>March</td>
<td>364</td>
<td>228</td>
<td>944</td>
</tr>
<tr>
<td>Ocean Acidification Impacts on Fisheries</td>
<td>March</td>
<td>323</td>
<td>164</td>
<td>543</td>
</tr>
</tbody>
</table>

* As of 31 August 2017.

All webinars are available for free viewing at https://www.americangeosciences.org/policy-critical-issues/webinars.
EDUCATION ACCOMPLISHMENTS

Year to year use of the Education Resources Network database is increasing rapidly. While there were just over 7,400 unique page views in 2016, that number was exceeded within the first quarter of 2017, with more than 9,500 unique page views in just those three months.

» The Education Resources Network provides a searchable database of materials to effectively conduct geoscience education, which is especially important to teachers whose initial training does not include a high amount of geoscience coursework. The most popular section of the Education Resources Network is “classroom activities” (https://www.americangeosciences.org/center-for-geo/ern/ern-database/search-curricula&field_ern_item_type_tid%5b%5d=985), which had just over 2,000 unique page views in 2016, and has already had more than 2,500 in the first quarter of 2017. The pattern of access suggests that this has become a highly useful resource for teachers as they plan Earth and space science lessons.

Greater geographic diversity in Educational Resources Network site visitors has been achieved both domestically and internationally. At this point approximately 10% of the traffic to the website is from international users. In the past 13 months, Canada, the United Kingdom, the Philippines, and India have been the sources of the most international use.

Successful launch of the International Geoscience and Energy Education Teacher Training (IGET2) Program:

» In collaboration with Schlumberger, IGET2 extended AGI’s teacher professional development expertise to 32 teachers in Ecuador.

» Two workshops—highly customized for a project-based learning approach promoted by the Ecuadorian Ministry of Education—were held in Urcuqui and Shushufindi and more are planned.

Trained non-geoscience teachers to teach geoscience

» The “Earth and Space Science” online course trained approximately 100 teachers, whose first area of training is not geoscience, with the goal of providing materials and support for geoscience instruction. This is an important addition to AGI’s ongoing support of the implementation of the Next Generation Science Standards in Earth and Space Science.

» Synthesizing data from all 50 states and DC, along with more than 150 initial teacher preparation programs to shape the role of geoscience in teacher preparation and geoscience instruction.

About 100 teachers at four communities—Quito, Urququi, Shushufindi and Coca—took part in the IGET2 project, engaging with hands-on energy activities, real-world energy data, and discussions of Ecuador’s energy policy and initiatives.

Credit: Courtesy of E.C. Robeck

Developed “Report on the Status of K-5 Geosciences Education in the United States”

» Established the first set of education indicators to assess the role of the geosciences in elementary education. Additional data from 166 initial teacher preparation programs around the United States will provide more information on the need for additional K-5 teacher preparation for teaching geoscience.

EDUCATION WEBINARS 2015 TO PRESENT

<table>
<thead>
<tr>
<th>2017 Webinars</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieve Resources and Tools for NGSS Implementation</td>
<td>Sept. 14, 2017</td>
</tr>
<tr>
<td>NGSS Across the Sciences Curriculum</td>
<td>May 11, 2017</td>
</tr>
<tr>
<td>NGSS Climate Education with the CLEAN Collection</td>
<td>April 13, 2017</td>
</tr>
<tr>
<td>NGSS Curriculum Development: Lessons Learned from the Mi-STAR Program</td>
<td>February 9, 2017</td>
</tr>
<tr>
<td>Education for Sustainability with the Next Generation Science Standards</td>
<td>January 12, 2017</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>2016 Webinars</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Making Your Course Worth Their Time: Maximizing Student Learning in your Introductory and General Education Earth Science Courses</td>
<td>November 10, 2016</td>
</tr>
<tr>
<td>Introducing Teachers to the Next Generation Science Standards: Best practices and lessons learned</td>
<td>October 13, 2016</td>
</tr>
<tr>
<td>NSTA Resources for NGSS in the Earth and Space Sciences</td>
<td>September 8, 2016</td>
</tr>
<tr>
<td>Building a State Coalition for NGSS-ESS</td>
<td>May 12, 2016</td>
</tr>
<tr>
<td>Supporting Elementary Teachers with the NGSS</td>
<td>April 14, 2016</td>
</tr>
<tr>
<td>Classroom Assessment Strategies for NGSS Earth and Space Sciences</td>
<td>February 11, 2016</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2015 Webinars</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helping Educators Use Your Resources for Implementation of the Next Generation Science Standards</td>
<td>October 22, 2015</td>
</tr>
<tr>
<td>Maintaining the Momentum: Networking and Actions by Geoscience Stakeholders to Support NGSS Implementation</td>
<td>June 9, 2015</td>
</tr>
<tr>
<td>NGSS Earth and Space Science: Needs and a Call to Action</td>
<td>April 9, 2015</td>
</tr>
<tr>
<td>NGSS Earth and Space Science: Vision, Opportunities, and Action</td>
<td>March 27, 2015</td>
</tr>
</tbody>
</table>
EVENTS

On December 8 and December 15, AGI hosted two unique events to celebrate 20 successful years of our flagship educational endeavor, Earth Science Week (ESW). Featuring “Earth as Inspiration,” the ESW 2018 theme, AGI formally launched a new community collaboration with the Alexandria Torpedo Factory. This is the first time AGI has engaged in such a way locally, and on the convergence of geoscience and art, also known in the educational sector as STEAM (science, technology, engineering, arts & mathematics).

The first event featured special guests, including: Sally Jewell, former Secretary of Interior, Alexandria Mayor Allison Silberberg, and Mary J. Tykoski, the winner of the Edward C. Roy, Jr. 2017 Award for Excellence in K-8 Earth Science Teaching. The focal point of the event was a hands-on educational experience with art and science projects created by teams of local artists and science/education specialists from AGI and the Torpedo Factory. In addition, educational materials such as Earth Science Week Toolkits have been offered for free for teachers, students, homeschoolers, and others to take away.

The second event, The Late Shift: STEAM-Powered December, included the festivities for a night of music, interactive art, artist presentations, and more. Both events represented an exciting partnership between AGI and The Torpedo Factory, the beginning of a year-long collaboration intended to strengthen education and promote awareness of Earth science.

Photos ©Laura Hatcher Photography
The first Torpedo Factory Arts Center event in December featured special guests, including: Sally Jewell, former Secretary of Interior, Alexandria Mayor Allison Silberberg, and Mary J. Tykoski, the winner of the Edward C. Roy, Jr. 2017 Award for Excellence in K-8 Earth Science Teaching.
ABOUT THE AGI FOUNDATION

MISSION
Established in 1984, the AGI Foundation...
Supports educational, scientific and charitable activities that benefit the geoscience community, member societies and associates of the American Geosciences Institute, the public at large and assists the Institute in seeking funding support for specific programs and endowments and in developing partnerships with corporations, private foundations and other funding organizations.

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Please send comments or inquiries to: agidaspv@agiweb.org

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