The E&P industry is stabilizing after a three-year oil price downturn, providing an opportunity for corporations and SEG members to consider donations to the SEG Foundation for student and early-career programs and our Geoscientists Without Borders® (GWB) humanitarian program.

During the past decade, the SEG Foundation and its donors have provided more than US$2 million a year to support numerous SEG programs including humanitarian efforts, student programs, lectures, educational opportunities, and historical-preservation activities.

In particular, the GWB program has granted 34 projects in 27 countries, focusing mostly on water management and earthquake, tsunami, and landslide preparedness. These projects have, and continue to make a significant impact in disadvantaged areas around the world. Our near-term goal is to raise additional funds for GWB project awards in 2018 and 2019. A longer term goal is to solicit major donations to increase the GWB program endowment. GWB will celebrate its 10th anniversary in 2018 and we especially thank Schlumberger, the founding supporter, for their continued financial support of this important program.

After four years as SEG Foundation chair, I will step down in 2018 but will remain on the Board to focus on GWB fundraising and plan to join the EVOLVE Technical Committee. Both programs are important for SEG’s success and growth. The 2018 Foundation Executive Committee members are Mike Loudin, chair; Anna Shaughnessy, vice chair; and Pete Cramer, treasurer.

Thank you to our corporations, SEG Trustee Associates, SEG members, and all others who donate to the SEG Foundation. The future is very bright for SEG programs.

Michael C. Forrest
2017 SEG Foundation Chair
The SEG Foundation Board of Directors has overall responsibility for all aspects of the Foundation’s functions, including fundraising and oversight of investments. This 16-member Board is comprised of dedicated industry leaders and volunteers who are passionate about geophysics and our professional community. Directors are appointed by the president of the Society of Exploration Geophysicists (SEG).

Five leadership Board committees provide business guidance and ensure its financial well being. These committees include: the Executive Committee, Audit Committee, Development Committee, Finance and Investment Committee, and the Nominating Committee. In addition, Board liaisons are assigned to specific Foundation-funded SEG program committees to ensure donor intentions are being honored and to enable open pathways of communication between SEG programs and the SEG Foundation Board.
contents

04 financials

06 humanitarian efforts
Geoscientists Without Borders®
Hurricane Harvey Relief

11 inspiring students
Student Support – General Scholarship Program
Student Chapters
Field Camp Program
Student Leadership Symposium (SLS)
Student Education Program (SEP)
EVOLVE
Travel Grants
Challenge Bowl Finals
Near Surface Geophysical Research Award
Student Membership Dues

21 lectures
Honorary Lectures
Distinguished Lectures

26 educational resources
Distinguished Instructor Short Course (DISC)
SEG on Demand
SEG Wiki
SEG Online
SEG Publications

31 historical preservation

32 volunteer award

33 donor recognition
Corporate Investors
Sustaining Trustee Associates
Trustee Associates
Memorial Tribute
High Velocity Donor Club
Doodlebugger Society
Donor Club
Other Annual Fund Donors
Program Donors
Corporate Matching Gifts
Giving Back
2017 Financials

The following charts display the sources of revenue and program and support expenses for 2017 and 2016 (in thousands):

### 2017 Sources of Revenue
- Contributions: $782
- In-Kind Support from SEG: $102
- Interest & Dividends: $509
- Unrealized Gain on Investments: $2,316
- Loss on Bad Debt: ($39)

### 2016 Sources of Revenue
- Contributions: $1,134
- In-Kind Support from SEG: $120
- Interest & Dividends: $427
- Unrealized Gain on Investments: $512
- Loss on Bad Debt: ($750)

### 2017 Expenses
- SEG Program Support: 77%
- Management & General: 11%
- Fundraising: 5%
- Investment Fees: 4%
- Grants to Community: 3%

### 2016 Expenses
- SEG Program Support: 79%
- Management & General: 11%
- Fundraising: 6%
- Investment Fees: 4%

All monetary values are in U.S. dollars. Complete audited financial statements available at seg.org/foundation.
2017 Financials

2017 summary
Program and support expenses are funded by contributions from corporate and individual donors (new contributions and existing pledge payments). Although the industry showed some stabilization in 2017, the Foundation continued to see the effects of the previous downturn through fewer contributions (both in number and in size) than in previous years. Anticipating this decrease during the approval of the 2017 budget, the Foundation maintained basic management and general support services and focused on select fundraising projects and stewardship activities. The Foundation net assets were $22.5 million at the end of 2017.

Foundation-funded SEG programs
During 2017, Foundation donors supported 20 SEG programs/activities, providing grants to SEG totaling almost $2.4 million. These programs include: Student Support (general, Student Education Program, Student Leadership Symposium, EVOLVE, membership dues; $578,000), Scholarships ($577,000), Geoscientists Without Borders® ($498,000), Distinguished Programs (Honorary Lecture, Distinguished Lecture, Distinguished Instructor Short Course; $408,000), SEG Online (Wiki, on Demand; $155,000), Field Camps ($108,000), Student Chapters (including Challenge Bowl Finals; $38,000), Publications ($5,000), Annual Meeting Travel Grants, Historical Preservation, and the Near Surface Geophysical Research Award ($7,000).

Community grants
In response to the devastation that Hurricane Harvey left behind, the SEG Foundation Board of Directors chose to make a combined $100,000 in gifts to two Houston-based charities in September 2017.

Revenues: Contributions
As a result of the 2014-15 downturn in oil price, reductions in industry-wide corporate giving continues to negatively impact the overall fundraising results for the Foundation. Note that revenue reported by the Foundation only includes new pledges and contributions made in the current year and does not reflect additional cash received from pledges made in prior years.

Expenses: Supporting services
The Foundation’s expenses include program services, management and general, and fundraising. Program services are directly related to program grant awards to SEG. Management and general are related to the general administration and operation of the Foundation. Fundraising is directly related to the stewardship and development of donors.

Fundraising efficiency
A commonly used metric for monitoring fundraising efficiency is the “fundraising cost ratio” defined as fundraising expenses divided by total contributions. Calculating fundraising expenses and revenues using rolling averages over a period of three to five years reduces the impact on any one large gift, bequest, grant, or a low-revenue year on the fundraising cost ratio in any given year. The Foundation has chosen to use a three-year rolling average to calculate its fundraising cost ratio. According to CharityWatch, a charitable organization is considered to be highly efficient when the “Cost to Raise $100” is $25 or less (www.charitywatch.org).

Fundraising efficiency formula
\[
\frac{\text{fundraising expenses}}{\text{contributions}} \times \frac{\$100}{\text{dollars spent per $100 raised}} = <\$25
\]

All monetary values are in U.S. dollars. Complete audited financial statements available at seg.org/foundation.
Humanitarian aid is material and logistical assistance to people who need help. The primary objective of humanitarian aid is to save lives, alleviate suffering, and maintain human dignity. In most cases, humanitarian aid aims to bring short-term relief to victims until long-term relief can be provided by the government or other institutions (ref. Wikipedia).

SEG and the SEG Foundation are focused on using applications of geoscience to provide long-term relief to thousands around the world. Geoscientists have the tools needed to create positive change in communities facing environmental hardship and natural hazards like severe water shortages and threats of earthquakes and tsunamis. The Geoscientists Without Borders® (GWB) program was founded in 2008, through the SEG Foundation with a generous gift from Schlumberger, to support humanitarian applications of geoscience around the world. This program has proved to be quite successful in bringing universities, students, government officials, and the general public together to mitigate these natural hazards in some of the world’s neediest communities.

In addition to supporting the ongoing efforts of SEG’s GWB program, the SEG Foundation’s mission also includes supporting the needs of the general public. Therefore, when an unexpected disaster struck Houston, Texas in September 2017 by way of a devastating hurricane, the SEG Foundation Board of Directors felt the need to help our associates by providing monetary donations to two Houston-based organizations that would in turn directly support the needs of the local people.

Geoscientists Without Borders® seg.org/gwb

Geoscientists Without Borders® (GWB) and its donors have helped fund 34 projects in 27 countries between 2008 and 2017. In total the program has awarded more than US$2.5 million, which has directly impacted the lives of thousands in global communities in need. Most of the projects have been related to water management and preparedness for natural disasters such as earthquakes, landslides, and tsunamis.

Grants are awarded to universities and other organizations that are using specialized knowledge and technical skills of geoscientists on the basis of project impact, feasibility, student engagement, science quality, and track records of project leaders. Project impacts have included drilling successful water wells with no dry or saline holes, identifying earthquake risks, implementing procedures of alternative airport transportation because of earthquake risks, and dozens of other success stories. Awards typically range from US$40,000–50,000 per project year and award terms are one to two years.

GWB receives sponsored funding each year from corporate investors, individuals, and other organizations. A special thank you to founding supporter Schlumberger, who not only identified the opportunity for geophysics to benefit humanitarian efforts, but also for making significant financial contributions to the program since 2008. In addition, the SEG Foundation manages a GWB endowment of more than US$1.6 million. This endowment was established in 2010 by a generous challenge grant from Debra and Mark Gregg of KiwiEnergy Ltd. and has grown significantly with the support of hundreds of individual donors.

The GWB Technical Committee, led by Michael Burianyk (chair), reviewed 26 project proposals in 2017. From those, five new projects were selected for funding:

“Mitigating seismic hazard in large cities near the Java Trench, Indonesia”
Brigham Young University (United States); US$99,390 grant (two-year project)
The Java Trench seismic gap is one of the largest and potentially most deadly in the world. A mega-thrust earthquake along this trench will potentially expose more people to stronger shaking than any other earthquake in history. Following the recent success we experienced in tsunami disaster mitigation in Java and other islands adjacent to the Java Trench, the primary goal of this project is to address aspects of the more widespread threat of seismic hazards in these islands. This will be accomplished by working with local Indonesian colleagues to (1) determine who is most at risk, (2) conduct field training in multichannel analysis of shear waves at the highest risk sites, (3) communicate geohazard risk to communities, and (4) train local disaster mitigation agencies and developers about simple ways to reduce seismic hazards for new construction without increased cost.
“Hydrogeology and water conservation in the Andean Puna, Peru”
Humboldt State University (United States); US$99,767 grant (two-year project)
Zurite is an agriculturally dependent community of approximately 4,000 inhabitants in the Andean highlands of Peru. Currently, the town has no general plan for sustainable water use, despite water being a limited resource for agricultural production. This is due, in part, to a lack of hydrologic information in the Ramuschaka watershed. Furthermore, the southwest sector of town, home to 120 families, has no irrigation canal network, and thus land can only be farmed during the rainy season. The primary goals of this cross-cultural and multidisciplinary project are to (1) characterize the hydrogeology of the Ramuschaka watershed draining to Zurite, (2) design a water reservoir and irrigation canal network, and (3) partner with the community of Zurite to complete the construction of the reservoir and irrigation canal network.

“Groundwater geophysical exploration and water well construction in Acholiland and south Sudanese refugee camps in Northern Uganda”
IsraAID (Israel); US$50,000 grant
From 1986 until 2009, the Gulu District, with an estimated population of more than 400,000 people, was the epicenter of the violence and mass displacement of an estimated 2 million Acholi persons as a consequence of rebel activity of Joseph Kony and the Lord’s Resistance Army. Gulu, Kitgum, and Pader districts were most severely affected with an estimated 90% of the populations being moved to internally displaced persons camps. As Acholi people have returned to their villages and subsistence livelihoods over the last 10 years, they have been faced with numerous challenges, including rebuilding water supplies. The primary goal of this program is to provide improved access to water in Acholiland and refugee camps in the West Nile, as well as to provide the understanding and means to continue to improve the situation. This will be accomplished using 2D resistivity to site new water wells in needy villages in the Gulu District and with the geophysical program being accompanied by a manual drilling team.
“Improving the sustainability and productivity of poor smallholder farmers in northern Ghana using electromagnetic induction guided precision irrigation”

State University of New York at Buffalo (United States); US$99,945 grant (two-year project)

Northern Ghana spans almost half of the landmass of Ghana with a semi-arid climatic condition. While farming is the primary occupation of over 70% of the inhabitants in northern Ghana, the hot and dry conditions coupled with excessive evapotranspiration with only one rainy season limits their farming season to only four to five months of the year. This makes northern Ghana the most poverty-ridden area in the country with over 80% of the ~3.5 million people living below the poverty line. The primary goal of this project is to apply electromagnetic induction guided precision irrigation to assist poor smallholder farmers to make judicious use of their limited irrigation water with the long-term goal of extending the farming season to promote socioeconomic development and food security to curb rural-urban migration in northern Ghana.

“DC resistivity sounding for groundwater development in Léogâne, Haiti”

University of Kentucky (United States); US$49,836 grant

The residents of Léogâne, Haiti (pop. 90,000) have historically relied on shallow hand-excavated wells as a source of water. Until recently, these wells were productive. Léogâne is near the epicenter of the 2010 Haiti earthquake. In the aftermath, humanitarian funds poured in from around the world and the downtown streets were improved using some of these funds. However, after construction many of the shallow wells in Léogâne dried up. It is believed that the paved roads and drainage structures disrupted groundwater recharge and negatively impacted the performance of the water wells. The primary goals of this project are to (1) perform DC resistivity testing to aid in understanding the subsurface groundwater conditions and develop a strategy to remediate the dry water wells and restore the water table, (2) train engineers active in Haiti to perform the testing and analysis using DC resistivity equipment, and (3) provide education to Haitian engineering faculty and students on how to apply engineering geophysics toward groundwater development. The long-term goal is to enhance Haitian capabilities and self-sufficiency with respect to groundwater development in the future.
Humanitarian Efforts

clockwise from top: India, South Africa, and Uganda
previous page: India

Corporate Investors:

Schlumberger
PGS
CGG
Santos

Partner:

GWB Endowment Donors:
Debra and Mark Gregg / KiwiEnergy
SEG Foundation Trustee Associates
Honorary Endowment Donors

Supporting Societies:

Environmental and Engineering Geophysical Society
Hurricane Harvey was a Category 4 storm that hit Texas on 25 August 2017. The storm caused widespread, catastrophic flooding and devastating damage that affected 13 million people from Texas through Louisiana, Mississippi, Tennessee, and Kentucky.

Harvey made landfall three times in six days. At its peak on 1 September, one-third of Houston was underwater. Two feet of rain fell in the first 24 hours. Flooding forced 39,000 people out of their homes and into shelters.¹ Thousands of people found refuge in the George R. Brown Convention Center, where the SEG International Exposition and 88th Annual Meeting was to be conducted 24–29 September.

In response to the devastation in the Greater Houston area, the SEG Foundation Board of Directors approved a donation of US$100,000 to two charities for Hurricane Harvey relief. The donations were evenly divided between the Houston Food Bank and the Harvey Harvey Relief Fund at the Greater Houston Community Foundation.

“The SEG Foundation includes humanitarian aid in its charter and so we are pleased to make donations to the Houston Food Bank and the Greater Houston Community Foundation for Hurricane Harvey flood relief,” said SEG Foundation Chair Michael Forrest. “These donations are very appropriate as Houston is the home of many SEG members and stakeholders, and especially because so many people in the city need assistance.”

Houston Food Bank
The Houston Food Bank is a member of the nation’s largest non-governmental domestic hunger relief organization — Feeding America. Their goal is to make food accessible to hungry people in their greatest time of need. Every dollar donated to the Houston Food Bank provides the equivalent of three meals for an individual, so the SEG Foundation’s US$50,000 donation represented 150,000 meals. Within just the first three weeks following Hurricane Harvey, the Houston Food Bank had delivered over 16 million pounds of food, water, and supplies to help community members in need. For more information about the Houston Food Bank, visit houstonfoodbank.org.

Harvey Relief Fund (Greater Houston Community Foundation)
Houston Mayor Sylvester Turner and Harris County Judge Ed Emmett established the Hurricane Harvey Relief Fund to benefit victims affected by the floods. The distribution of grants was made in support of the fund’s charitable purpose: to provide relief efforts to aid victims of the flooding and other damage caused by Hurricane Harvey. This included shelter and temporary housing needs, food and supplies, health care, transportation, child care, facility needs of child care and social service agencies, and other approved purposes consistent with the fund’s charitable purposes. This fund was dedicated to filling the gaps that were not met by other local and federal efforts. Read more at ghcf.org.

SEG is striving to create a culture of leadership that will take the geophysical community forward for years to come. Since a student’s sense of belonging can be a strong predictor of their eventual success, SEG is committed to providing budding geophysicists with as many tools and networking opportunities as possible as they grow into their geophysical career.

Building on students’ strengths, SEG’s competitive grant programs provide funding for an individual’s educational costs, opportunities for hands-on geophysical experiences, and the ability to participate in networking and technical events. SEG also has programs that allow students to take leadership positions in projects or as Student Chapter officers, which is one of the best ways to keep them engaged. Volunteer mentors expand on these experiences by taking a keen interest in a student’s education and other goals, and help to answer questions that may arise about their future career paths.

Students who participate in SEG activities are also likely to develop lifelong friendships with others around the world — some they may even end up working with later in their geophysical career. SEG is preparing the next generation of geophysicists for their future successes.

“Great leaders inspire others to raise their own bar.” — Orrin Woodward
Scholarship Program [seg.org/scholarships]

SEG Foundation donors provide annual and sustainable funding for the SEG Scholarship Program with pass-through and endowment donations. Currently, the SEG Foundation manages a scholarship endowment of more than US$7.5 million, comprised of 70 individual scholarship donor funds. The number of awards available each year is dependent on the number of sponsors and amounts contributed.

A total of 730 completed applications were reviewed by the SEG Scholarship Committee, led by Zhaobo “Joe” Meng (chair). Ultimately, 132 recipients from 18 countries received awards in 2017 totaling US$492,786. Scholarships range from US$500–10,000 per academic year; average awards in 2017 were approximately US$3,700.

A special thank you to Anadarko Petroleum Corporation for their significant and continuous financial contributions to the program since 2006. Additional thanks to Chevron Corporation, Marathon Oil Company, and Statoil ASA for their generous contributions during 2017, and to the hundreds of individual donors who have contributed to the success and sustainability of the SEG Scholarship Program over the years.

Corporate Investors:

2017–2018 scholarship awards

Individuals:
SEG/James L. Allen Scholarship
Michael Bahorich/SEG Scholarship
SEG/David Bartel Scholarship
David and Rebecca Bartel Veteran’s Scholarship
Michael L. Batzle Scholarship
Ted Born Memorial Scholarship
SEG/John R. Butler Jr. Scholarship
SEG/Andreas Cordsen Scholarship
John D. Delbridge Memorial Scholarship
SEG/Norman and Shirley Domenico Scholarship
Dr. and Mrs. S. Norman Domenico Scholarship
Michael C. Forrest Scholarship
Donald and Nancy Frye Scholarship
SEG/J. Michael Galbraith Scholarship
Debra and Mark Gregg Scholarship
Earl D. and Reba C. Griffin Memorial Scholarship
Frans and Alice Hammons Scholarship
SEG/P. C. Havens/Seismic Exchange Inc. Scholarship
SEG/James and Ruth Harrison Scholarship
SEG/Marvin and Jene Hewitt Scholarship
Fred and Kathi Hilterman Scholarship
SEG/Gerald W. Hohmann Memorial Scholarship
Frantisek Hron Memorial Scholarship
SEG/J. Richard and Shirley Hunt Scholarship
SEG/Ian G. Jack Scholarship
George V. Keller Scholarship
SEG/David R. Lammlein Scholarship
SEG/Lucien LaCoste Scholarship
Richard and Rollande Lockhart Scholarship
David E. Lumley Scholarship in Energy and Environmental Science
SEG/Thomas A. Mazza Memorial Scholarship
SEG/Barbara McBride Memorial Scholarship
Charles C. McBurney Memorial Scholarship
Billy F. Mitcham Jr. Memorial Scholarship
Billy F. Mitcham Sr. Memorial Scholarship
SEG/Henry Bates Peacock Scholarship
SEG/John W. Pierce Scholarship
Alexander Mihai and Catherine Ann Popovici Scholarship
James D. and Stella M. Robertson Scholarship
SEG/Ulrich Schmucker Scholarship
SEG/Gary and Lorene Servos Scholarship
Robert E. and Margaret S. Sheriff Scholarship
Charlie and Jean Smith Scholarship
Michael T. Spradley Memorial Scholarship
EAGE/SEG/Thomsen/BP Scholarship

132 recipients
18 countries
US$492,786

Inspiring Students
Inspiring Students

SEG/EAGE/Thomsen/BP Scholarship
SEG/Jack and Catherine Threet Scholarship
Aubra Tilley Scholarship
Shirley A. and Stanley H. Ward Scholarship
J. E. White Memorial Scholarship
Keith H. Wrolstad Memorial Scholarship
SEG/David W. Worthington Scholarship
Kenneth L. Zonge Scholarship

Societies:
Geophysical Society of Alaska Scholarship
Dallas Geophysical Society Scholarship
DGS/Karen Kellogg Shaw Memorial Scholarship
SEG/Denver Geophysical Society Scholarship
GSH/Carlton-Farren Scholarship
GSH/Hugh Hardy Scholarship
KEGS Ontario/SEG Scholarship
KEGS/Phillip Hallof Memorial/SEG Scholarship
Geophysical Society of Oklahoma City Scholarship
Geophysical Society of Tulsa/SEG Scholarship

Corporations:
SEG/AGIP Scholarship
Anadarko/SEG Scholarship
SEG Foundation/Apache Scholarship
SEG Foundation/BP Scholarship
SEG Foundation/CGG Scholarship
SEG/Chevron Scholarship
SEG Foundation/Chesapeake Scholarship
SEG/Excel Geophysical Services Scholarship
ExxonMobil Upstream Research Co. Scholarship
SEG/Landmark Scholarship
SEG Foundation/Marathon Oil Scholarship
SEG/Schlumberger Scholarship
SEG/Shell E&P Scholarship
SEG/Statoil Scholarship
SEG/WesternGeco Scholarship
SEG/WesternGeco/Carl Savit Memorial Scholarship
SEG/WesternGeco/Henry Salvatori Memorial Scholarship

Others:
SEG 75th Anniversary Scholarship
SEG Foundation Scholarship
SEG/Latin American and Caribbean Scholarship

Scholarship recommendations summary 2017–2018

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Note: All monetary values are in U.S. dollars. Application locations are based on the university.

“This award means a lot to me, and I am truly grateful for the honor of receiving it. The award goes beyond its monetary value alone. To me, it is a confirmation that I am on the right track and that I can continue to pursue my goals with confidence.

— Nadine Igonin, PhD student at the University of Calgary, Earl D. and Reba C. Griffin Memorial Scholarship recipient 2017–2018
SEG is committed to connecting the world of applied geophysics. Student Chapters are an excellent resource to increase interest among students of geophysics. By providing opportunities for leadership, achievement, and cultivation of ideas, SEG Student Chapters open the door for students to actively participate in projects and initiatives that promote geophysics.

At the end of 2017 there were 329 SEG Student Chapters, a number that continues to grow. To see an interactive map of the Student Chapters around the world, visit seg.org/studentchapters and choose “Student Chapter Map” from the menu on the left.

Student Chapter Excellence Program
The Student Chapter Excellence program recognizes existing SEG Student Chapters for their engagement with the Society and the science. Every Student Chapter is required to submit a Student Chapter Report to remain active and qualify for base level. Student Chapter ranking (Ridge, Summit, and Best) is further determined by the information provided in the Student Chapter Report and the Best Student Chapter Application. All submitted activities must have taken place between 1 January and 31 December. Reports submitted after the deadline are automatically awarded base level. Student Chapters who do not submit the required report are placed on inactive status.

In addition, the 2017 Best SEG Student Chapter, the AGH University of Science and Technology in Krakow, Poland, was awarded a US$5,000 travel grant for their faculty advisor and one student member to attend the SEG Annual Meeting in Anaheim, California, in October 2018.

Outreach Grants
SEG received over 50 outreach grant proposals in 2017, resulting in 10 Student Chapters being chosen to receive funding for their projects. Grant totals ranged from US$500–1,900 to assist Student Chapters with promoting enthusiasm and passion for geophysics. Most outreach projects involve university students educating primary and secondary students about the equipment, data, and geologic aspects of geophysics with hands-on activities and field trips. The 10 awarded Student Chapters were located in China, India, Indonesia, Mexico, Nigeria, Romania, the United Kingdom, the United States, and Venezuela.

A special thank you to Paradigm for their corporate leadership support of the Student Chapters and Student Chapter Excellence Program in 2017.

Corporate Investor:
The Field Camp program was established to provide seed money for geophysics faculty and SEG Student Chapters, to create and support field courses which give students hands-on experience with data collection and analysis using geophysical instruments and software applications.

A record 27 applications were submitted from universities and student chapters in 16 different countries. The SEG Field Camp Committee, led by Jeffrey Shragge (chair), ultimately awarded 17 grants in 2017 totaling US$94,038.

**2017 Field Camp Grants:**
- **Bulgaria:** Geophysics Field Camp “Sozopol 2017;” University of Mining and Geology “St. Ivan Rilski”
- **Canada:** Geophysical Field School 2017; University of Calgary
- **Canada:** Geophysics Field Camp 2017; University of Western Ontario
- **Indonesia:** 2017 Geophysics Field Camp; Universitas Gadjah Mada
- **Kenya:** Jomo Kenyatta University Geophysical Society Geophysical Field Camp; Jomo Kenyatta University
- **Poland:** SEG Field Camp 2017; AGH University of Science and Technology
- **Romania:** “Extracting subsurface physical properties from natural earth responses;” University of Bucharest
- **Russia:** 2017 Field Camp Project “On the crest of a wave;” Novosibirsk State University Geophysical Society
- **South Africa:** AfricaArray; University of Witwatersrand
- **Switzerland:** 2017 ETH Zurich Field Course; ETH Zurich
- **Ukraine:** Geoscience Field Camp in Ukraine 2017; Taras Shevchenko University of Kyiv Geophysics Society
- **United States:** Geophysics Field Camp; Colorado School of Mines
- **United States:** Geophysics Field Camp 2017; University of Houston
- **United States:** GeoFORCE; The University of Texas at Austin
- **United States:** Marine Geology and Geophysics Ship-board Field Experiences; The University of Texas at Austin
- **United States:** Summer of Applied Geophysical Experience; Purdue University
- **United States:** 2017 Geophysical Field Camp; Wright State University

A special thank you to TGS-Nopec Geophysical Company for their significant and continuous financial contributions to the program since 2009. Currently, the SEG Foundation manages a field camp endowment of more than US$710,000, comprised of five individual field camp donor funds.

**Corporate Investors and Endowment Donors:**

Rutt Bridges Summer Field Camp Grants
Richard Degner Field Camp Grants
Hank Hamilton Field Camp Grants
O. S. Petty Field Camp Grants

(founding investor of the SAGE Endowment)
The SEG/Chevron Student Leadership Symposium (SLS) is a two-day program focused on developing leadership, teamwork, and communication skills. Students who are current active officers of an SEG Student Chapter come together to be addressed by the SEG president, hear best practice presentations from selected Student Chapters, receive professional leadership coaching, and participate in an organized team-building activity. Participants also receive travel grants to cover expenses for travel, lodging, and conference registration to SEG’s Annual Meeting.

Chevron representatives play an active and critical role in developing the materials and the professional leadership module, as well as providing instruction and speakers during the SLS program. Chevron conducted the first SLS in 2007, and has been supporting the program ever since.

The 2017 SLS was held 23–24 September 2017 in conjunction with the SEG International Exposition and 87th Annual Meeting in Houston, Texas. After receiving 105 viable applications, Kyle Spikes (chair) led the SEG Travel Grants Committee to narrow the recipients to 50 participants from 27 different countries, representing 50 SEG Student Chapters worldwide.

**Corporate Investor:**

![Chevron](https://seg.org/sls)

**Leadership, teamwork, and communication building skills.**

---

It was a great feeling to be there with all those students and professionals, to feel the positive energy and enthusiasm that was overfilling the rooms. To know that, regardless of how small we think we are, by being a part of SEG, we are all an important part of something great and any of us can make a difference.

— Bojan Brodic, Uppsala University
The SEG/ExxonMobil Student Education program (SEP) has enhanced the traditional way of learning by exposing geoscience students to how the industry works. This two- to two-and-a-half day course prepares college students for the challenges of an oil industry career. SEP includes lectures and exercises focusing on multidisciplinary subsurface integration aspects of geophysics. Most participants also receive travel grants to cover expenses for travel, lodging, and conference registration to SEG’s Annual Meeting.

ExxonMobil representatives play an active and critical role in the program by providing course materials, as well as leading professional geoscientists who act as instructors and facilitators during the entire SEP program. ExxonMobil has supported SEP since 2008.

SEP Houston (22–24 September 2017) was held in conjunction with the SEG International Exposition and 87th Annual Meeting held 24–28 September in Houston, Texas. After receiving 86 viable applications, Kyle Spikes (chair) led the SEG Travel Grants Committee to narrow the recipients to 40 participants (18 female, 22 male) from universities in 15 countries worldwide including Brazil, Bulgaria, Canada, Colombia, France, Germany, Japan, Mexico, Netherlands, Poland, Romania, Switzerland, Thailand, the United States, and Venezuela.

Corporate Investor:

It was the most energizing experience of my life, being surrounded by other students from so many different backgrounds and countries, all working on the same thing with top-tier ExxonMobil staff. The quality of the exploration workshop ExxonMobil supplied us with was remarkable. While challenging, the class was great fun and phenomenally organized. I never thought I would learn so much about an industry in just one weekend.

— Chloe Sutkowski, California State Polytechnic University
Since 2014, a strategic collaboration between Halliburton and the SEG Foundation has resulted in the EVOLVE program, which provides subsurface learning projects in an interactive, noncompetitive team environment that fosters global participation. EVOLVE is delivered through cloud technology which provides a unique virtual learning experience. The projects require analysis and application of geophysical/seismic, geologic, petrophysical, and petroleum engineering data and software technology, such as Halliburton’s DecisionSpace® Enterprise platform, to support integrated reservoir management, problem solving, and decision making.

EVOLVE offers students direct experience in conducting multidiscipline subsurface integration projects using actual seismic, microseismic, wireline, core, production, and other types of data. Project management, teamwork skills, and business values are honed within the context of exploration, reservoir appraisal, field appraisal, field development planning, and production enhancement scenarios. Benefits to the industry include building a model for early asset-based learning; driving integration of software, data platforms, and work practices; focused, persistent collaboration between academia, professional associations, and industry; and priming a talent pool around the globe.

At the end of 2017, the EVOLVE Technical Committee reviewed 49 applications with a wide international presence, and will select 10 university-based teams in January to participate in the relaunch of the program in 2018. The teams will make presentations at the SEG Annual Meeting in Anaheim, California, in October 2018.

Many thanks to Halliburton for their vision and sponsorship of this program, as well as for providing the iEnergy platform for the participants to use. In addition, thanks to International Human Resources Development Corporation for strengthening the program through the donation of nine complete courses.

Corporate Investor: SEG

seg.org/EVOLVE
Travel Grants [seg.org/travelgrants]

Students and recent graduates have an opportunity to learn leading-edge geophysical knowledge, meet potential and prospective employers, visit with individuals who are living the excitement of their chosen profession, and catch a glimpse of all that the industry has to offer while attending an SEG-sponsored meeting. In addition to having the opportunity to engage in the many activities available at an SEG event, travel grant awardees will receive paid travel, hotel accommodations, per diem, and registration for the event.

In 2017, the SEG Travel Grants Committee, led by Kyle Spikes (chair), reviewed more than 300 student applications for four different program opportunities. Student applications were received for the SEP/ExxonMobil Houston, SLS/Chevron Houston, SEG Annual Meeting Technical Program, and Near Surface Geophysical Research Award. In total, **101 grants were awarded** by the SEG Travel Grants Committee in 2017.

A special thank you to Chevron (SLS), ExxonMobil (SEP), Rutt Bridges (Annual Meeting Travel Grant Endowment), and the Student Support Endowment for providing these grant opportunities for our geoscience students.

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Challenge Bowl Finals

The SEG Challenge Bowl competition is an international contest testing students’ breadth and depth of knowledge about the field of geoscience. The quiz show format results in intense competition as the contestants attempt to “buzz in” first with the answers to challenging geoscience questions. The contest itself is in the form of a short answer, multiple choice quiz with questions ranging in difficulty from second- or third-year undergraduate level to first-year graduate school.

The 2017 SEG Challenge Bowl World Finals took place in Houston on 25 September 2017 during the SEG International Exposition and 87th Annual Meeting, with a total of **10 teams (20 students)** who traveled from around the world to test their geophysical and Society knowledge. Winners of regional competitions competed in this rapid-fire, push-the-buzzer, who-can-answer-first quiz competition. Emceed by SEG Foundation Vice Chair Peter Duncan, the heated contest saw the team from the University of Manitoba, Canada, take home first place. Second place went to the University of Colorado Boulder, United States, and third place went to Sultan Qaboos University, Oman.

A special thank you to Anadarko, Chevron, and Shell who sponsored the event through the SEG Annual Meeting. Thanks also to the many individual donors who helped to support this event with contributions through the SEG Foundation.

**1st place**
University of Manitoba

**2nd place**
University of Colorado Boulder

**3rd place**
Sultan Qaboos University
Near Surface Geophysical Research Award seg.org/ns

Founded by the Near-Surface Geophysics Technical Section of SEG in 2016, the SEG Near Surface Geophysical Research Award Endowment provides sustainable grant(s) to deserving students. The intention of this award is to provide a research grant(s) in support of an undergraduate or graduate student in good standing, enrolled in a relevant academic program at an accredited institution, and engaged in near-surface geophysics research. A further intention is to offset expenses directly related to the awardees’ near-surface geophysics research including field data acquisition, laboratory studies, specialized computer software, or other general activities related to the completion of the research program.

In 2017, the SEG Travel Grants Committee, led by Kyle Spikes (chair), reviewed 13 student applications for this award. As a result, the second annual SEG Near Surface Geophysical Research Award winner was Sina Saneiyan, a PhD candidate and SEG Student Chapter president at Rutgers University in Newark. Saneiyan received a US$500 research grant to support his project, which seeks to use geophysical methods to monitor bio-mediated soil strengthening.

A special thank you to the Near-Surface Geophysics Technical Section of SEG for establishing and increasing an endowment for this specialized award. Thanks also to the individual donors who have helped support the annual award(s) with pass-through contributions through the SEG Foundation.

Student Membership Dues seg.org/membership

New rate codes for student membership dues were applied in 2017: US$21 for World Bank Group IV, US$10 for World Bank Group III, and US$5 for World Bank Group I and II.

The Student Dues Corporate Sponsorship program was originally created to allow students with an interest in applied geophysics from various cultural, socioeconomic, gender, and generational backgrounds all over the world to take advantage of SEG products and services and to be equally represented in the Society. In 2017, the balance of remaining funds for the program was used to support 3,408 students who received paid SEG membership dues. SEG recorded a total of 4,437 paid student members in 2017.
EG has contributed to broadening the educational and technical experiences for geophysics professionals and students by enlisting some of the most engaging and influential people in our science community and sending them to locations throughout the world to encourage thought-provoking conversations and ideas.

With the advent of technology, new, easier methods of communication are available. While virtual meetings may be more convenient than scheduling meetings in person, they create a barrier between attendees, making it harder to truly focus and engage. Good old-fashioned, face-to-face meetings offer greater benefits for several reasons. (1) Face-to-face meetings allow speakers to capture attention in a way that isn’t possible in a virtual environment. (2) Emotions are contagious. (3) Face-to-face meetings make it easier to focus. (4) In-person interactions are the best way to build relationships among people. (5) Face-to-face meetings allow you to build trust and empathize. (Source: b2match.com/blog)

In many cases, community members do not have the means to travel far to take part in these in-person scientific discussions. Therefore, SEG brings the instructors to the attendees. Approximately 9,720 professionals and students attended 215 SEG lecture presentations during 2017.

Honorary Lectures
seg.org/Education/Lectures

Since 2008, Shell has been exclusively funding the SEG Honorary Lecture (HL) program, allowing up to six traveling lecturers each year to transfer knowledge to major regions of the globe. The regional focus strengthens services SEG provides to an expanding global membership. Lectures may be given in English or a language appropriate to the region.

The six 2017 regions included Pacific South, South and East Asia, Europe, North America, Latin America, Middle East, and Africa.
Honorary Lecturer (Q1/Q2) — Pacific South
Koya Suto, Terra Australis Geophysica (Australia)
“A hitchhiker’s guide to geophysics”
This presentation guided participants around the fascinating world of geophysics. Some geophysicists design instruments right for observing the phenomena, and some geophysicists interpret the data to “see” the invisible.

Honorary Lecturer (Q1/Q2) — South and East Asia
Dr. J.V.S.S. Narayana Murty, G&G Software consultant to ONGC and GERMI
“Passive seismic tomography (PST), QC an application of PST-derived velocity for seismic imaging”
In this lecture, the concepts of passive seismic tomography were detailed, and a field example was presented to understand the limitations of PST using natural earthquakes. Various QC measures and conditioning of PST velocity field were discussed with examples to infer better structural information and use PST velocity as an initial model for reprocessing in seismic imaging.

Honorary Lecturer (Q1/Q2) — Europe
Dr. Martin Landrø, professor, Norwegian University of Science and Technology (Norway)
“New trends in marine seismic acquisition — Possibilities and impact on data quality”
The discussion noted why it is so challenging to generate very low frequencies in seismic acquisition, to show significant improvements within seismic data acquisition, and to discuss potential directions for further improvements, both related to efficiency and especially data quality.

Dr. Hanafy’s lecture is excellent and well delivered, and the title of the lecture fits into the theme of our 2017 conference. He was able to show live shooting and recording of seismic that got the attention of all participants, including nongeophysicists. Responses to questions were perfect and the feedback from our members indicate that they benefited immensely from the lecture.

— Lawrence Suyi Fadiya, Nigerian Association of Petroleum Explorationists, Lagos, Nigeria
Honorary Lecturer (Q3/Q4) — North America
Dr. Mirko van der Baan, professor, University of Alberta Edmonton (Canada)
“How widespread is human-induced seismicity in the USA and Canada?”
The discussion included an analysis of oil and gas production versus seismicity rates in seven states in the United States and three provinces in Canada, as well as a comparison with seismic hazard maps showing that human-induced seismicity is less likely in areas that have historically felt fewer earthquakes.

Honorary Lecturer (Q3/Q4) — Latin America
Dr. Martin Tygel, emeritus, University of Campinas (Brazil)
“Multiparametric traveltimes: Concepts and applications”
The lecturer shared the multiparametric traveltimes that are the most natural extensions of the classical single-parameter NMO and time-migration moveouts.

Honorary Lecturer (Q3/Q4) — Middle East and Africa
Dr. Sherif Hanafy, assistant research scientist, King Abdullah University of Science and Technology (Saudi Arabia)
“Inverting every type of arrival for near-surface imaging”
This presentation explored how the modern methods of seismic interferometry, waveform inversion, and multidimensional surface-wave inversion can be used to effectively invert almost every type of arrival for shallow seismic imaging.

Corporate Investor: 

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2017 Honorary Lecture (HL) Program Statistics

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Region</th>
<th>Countries</th>
<th>Presentations</th>
<th>Attendees</th>
<th>Universities</th>
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below: Dr. Sherif Hanafy at Mountain Top University in Lagos, Nigeria
Distinguished Lectures  seg.org/Education/Lectures

Selection as a Distinguished Lecturer is viewed as a major honor and recognition of excellence by SEG. In addition to recognizing an individual’s contributions to the science or application of geophysics, this position is an active effort to promote geophysics, stimulate general scientific and professional interest, expand technical horizons, and provide a connection to SEG activities and practices.

Q1/Q2 Distinguished Lecturer (January–June)

Dr. Paul J. Hatchell, research physicist, Shell (USA)

1. “Getting more for less: Frequent low-cost seismic monitoring solutions for offshore fields”
Reducing individual survey costs is important to enable frequent monitoring. This presentation discussed several techniques considered for lowering these costs and the pros/cons of the various techniques to select the best option for a specific field.

2. “Seismic amplitude fidelity and its impact on 3D and 4D seismic interpretation”
How much trust we should place in seismic amplitudes and the interpretations we make from them were discussed during this presentation. In the real world, seismic amplitudes show significant complexities that challenge textbook assumptions.

3. “Time-lapse seismic monitoring of reservoir deformation”
This presentation focused on time-lapse seismic monitoring, a relatively new technology, that consists of carefully repeating a seismic image months to years after production starts and looking for changes that indicate where production did or did not occur to help guide future operations.

Q3/Q4 Distinguished Lecturer (July–December)

Dr. Raymond Abma, senior research geophysicist, BP (USA)

“Simultaneous and coded seismic sources: Present and upcoming technologies”
Examples of various BP simultaneous source seismic surveys and some of the details behind how they were acquired and processed were discussed during this presentation. Also noted were some of the requirements for a successful simultaneous source survey and an analysis of the quality of seismic data obtained. The lecturer shared about some speculation around simultaneous source surveys using the random activation of the shot times as a code to allow shot separation.

<table>
<thead>
<tr>
<th>Lecturer</th>
<th>Description</th>
<th>Countries</th>
<th>Presentations</th>
<th>Attendees</th>
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</table>
2017/2018 Joint AAPG-SEG Distinguished Lecturer (tour planned by AAPG)

Dr. Bruce S. Hart, principal seismic stratigrapher, Statoil (USA)

1. “Five things geophysicists should know about shale plays”

The lecturer presented five characteristics of shale plays that should enable improved geophysical analyses.

(1) The term “shale play” has become meaningless.

(2) Source-rock reservoirs are not clay dominated.

(3) Links between VTI anisotropy and clay or organic content are not straightforward in source-rock reservoirs.

(4) HTI anisotropy is complicated by natural fracture geometries.

(5) Integration of geophysical and geologic data and concepts is needed to significantly advance geophysical research on shale reservoirs.

2. “The Ice Age and the giant Bakken oil accumulations”

The vertical juxtaposition of shallow-marine reservoir and more distal source rocks over such a large area, without intervening transitional facies, is unusual from a stratigraphic perspective. Discussion included one possible explanation that would require global fluctuations of sea level to drive geologically rapid and extensive shoreline movements in this relatively stable basin.

Corporate Investors:

Paradigm®

Statoil

A well-paced, clear, logical, informative presentation and delivery, sharing innovative concepts and results. Hugely enjoyable for an audience with a wide range of G&G interests and skills. Thought-provoking material.

EG provides a variety of educational resources in an effort to promote and enhance professional development and growth for geophysicists worldwide. SEG's education program features a wide variety of lectures, courses, technical sessions, and on-demand learning platforms for those in all career stages. SEG offers a full suite of courses, available at select conferences, local societies, company offices, or even right from your computer.

Online services are an integral part of our modern lives and we make use of them every day. Hence, SEG on Demand allows you to learn anytime, from anywhere using interactive courses and recordings from the brightest minds in geophysics — all convenient, easy-to-use, and affordable. Virtual courses allow you to hear the instructor, view the presentation, and ask questions in real time. The SEG Wiki (an encyclopedia of applied geophysics) allows SEG members and the geoscience community to inform the public and others on exploration geoscience.

For those who learn better in a classroom, the Distinguished Instructor Short Course (DISC) is still presented in-person each year at over 25 locations around the world. In addition, DISC and other lectures are also recorded and available online through SEG on Demand. With the use of their interactive website, SEG proudly provides online access to a huge variety of geophysical information and services for its members and some for the general public.
The 2017 DISC was presented in 25 locations, reaching 972 participants in 19 different countries. This course was designed to be of interest to a broad audience, including researchers, practitioners, and industry geoscientists, and accessible to those with little background in electromagnetics (EM).

Oldenburg’s course demonstrated that electromagnetics has applications in oil and gas exploration and production, mineral exploration, groundwater exploration and monitoring, and geotechnical and environmental industries. Although it has widespread applications as a geophysical technique, it is not generally understood by the geoscience community. As a result it is underutilized, and in some cases, misused, as a technology.

The aim of this course was to provide a fundamental understanding about EM geophysics so that practitioners can decide if an EM technique can help solve their problem, select which type of survey to employ, and set realistic expectations for what information can be gleaned. Case histories, spanning applications from many areas in the geosciences, are used as an underlying framework to bind the material together. Case histories pertain to problems in resource exploration, including oil and gas, minerals, water, environmental, and geotechnical areas and are contributed by experts worldwide.

Although each DISC course charges a reasonable cost to participate, there are additional program expenses that are further covered through the generosity of Shell and by the DISC Endowment, founded by Richard and Fran Baile. Many thanks to our participants and donors for keeping this program relevant and thriving.

Corporate Investor and Endowment Donor:

Richard and Fran Baile
SEG on Demand

SEG continues to promote SEG on Demand bundle subscription learning packages, providing a 30-day trial period for users to test drive the resource.

SEG courses. In 2017, SEG partnered with the Geophysical Society of Houston (GSH) to add nine recordings of SEG/GSH webinars to the SEG on Demand library. These are typically four half-day recordings of webinars presented by industry experts, covering a variety of topics.

Corporate Investor:

Mandarin translation. Work continues on the Mandarin translation projects. BGP will select the next group of lectures for translation in 2018.

Competency Management System. Use of the Competency Management System (CMS) continues to rise. The numbers below reflect the year-over-year increase in use between 2016, when the system was first introduced; and 2017, our first full year of use. Throughout 2017, the addition of SEG and third-party resources to the CMS library continued to provide members with the tools to fill their learning gaps. Thirteen new competency units in the fields of environmental and engineering were also added.

Many thanks to BGP for their ongoing support of the development of these online tools that support continuing education opportunities for geophysics students and professionals around the world.

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</table>
SEG Wiki  wiki.seg.org

An encyclopedia of applied geophysics, the SEG Wiki is a publicly accessible and editable website, open to all users registered with SEG. The SEG Wiki’s main mission is to supply scientific material to the geoscience community and the public through online books, tutorials, geoscience articles, and biographies of key geoscientists; and engage emerging and established professionals. The Wiki is maintained by the SEG Wiki Committee, volunteers, strategic university partnerships, and readers throughout the world.

On 30 November 2017, the SEG Wiki reached 77 active users, or individual users who have made at least one contribution in the last 30 days. This number is a record for the SEG Wiki and is due to the large number of translators using the Wiki to expedite their contributions (note: not all contributors are utilizing the Wiki for their translations, thus the discrepancy in numbers). In addition, 25 University of Houston graduate students in Heather Bedle’s fall 2017 semester contributed articles to the SEG Wiki. Example entries written by Heather and her students include: coherence, sweet-spot identification, hydrates, and pore-pressure analysis. Heather has committed to continue the project with 25 upper-level undergraduates during the spring semester of 2018.

As 2017 concluded, 4,736 entries, or 70% of Robert Sheriff’s Encyclopedic Dictionary of Applied Geophysics had been translated in its entirety to Spanish by 61 volunteers using the SEG Wiki. The eight team leaders on the Spanish translation project have distributed figures and appendices to their teams to be translated, as the translation nears completion. In addition to the progress that these volunteers have made, they have inspired three additional translation teams. Like the Spanish-speaking volunteers, nearly 50 Chinese-speaking volunteers have translated more than half of the dictionary to Mandarin. Using a slightly different workflow, smaller Russian-speaking and Arabic-speaking groups of volunteers are translating the book to their respective languages. To see an example of the result of these translations, visit wiki.seg.org/wiki/Dictionary:Backus_averaging.

Special thanks to Apache for their ongoing annual support of this effort, and to IHS Markit and Shell for their additional financial and content-related contributions that have also made this project a success. The Wiki continues to engage the geoscience community in preserving the legacy of SEG by expanding the world’s knowledge of the people and science of applied geophysics.

Corporate Investors:
SEG Online  seg.org

Members benefit from SEG’s leading online services and value-added content concerning all things geophysics. SEG works diligently to keep the information on its website current and to add value for its members and other visitors.

The following enhancements were made to SEG Online in 2017:

• Improved the Foundation donation process, including the ability for a donor to give directly to a specific fund from targeted webpages or e-mails.
• Improved security features of the website so visitors can feel secure when navigating the content, and when providing personal and payment information to SEG for transactional purposes.
• Upgraded the SEG Online Store, providing improved search features, promotional items, and the ability to sell packaged products.
• Added multicurrency payment options by adding JCB and PayPal to online payment processes.
• Integrated with the new e-mail marketing system, providing the SEG Marketing team with functionality necessary to deploy targeted e-mail campaigns.
• Enhanced the dues renewal process so members can renew from mobile devices.
• Created an online interactive map for SEG Student Chapters.
• Upgraded the association management system Personify, which provided new efficiency features for SEG staff and the platform to improve online features for customers.

Thank you to our many donors who have contributed over the years to supporting SEG Online services. In particular, thank you to Rutt Bridges for establishing the SEG Online Endowment Fund and for supporting the ongoing effort to keep relevant in these ever-changing technological times.

SEG Publications  seg.org/publications

With a commitment to editorial excellence and in-depth coverage of the changes, trends, and technologies shaping the geophysics industry, SEG’s portfolio of publications and books provides key information and resources for geoscience professionals and students around the world.

The SEG Digital Library contains more than 20,000 articles from The Leading Edge, Geophysics, and Interpretation; more than 30,000 expanded abstracts from SEG’s Annual Meeting and other meetings; more than 130 e-books; and applied-geophysics content hosted for related organizations. This online resource provides countless opportunities for members and those in the general public to learn more about the science or to delve deeper into a specific topic or theory.


The SEG Foundation currently manages a small endowment fund benefiting the publication activities of the SEG. In addition, thank you to the SEG book authors who have chosen to donate a portion or all of their royalties to the SEG Foundation Publications fund and other funds. These donations are a creative way to “give back” to the Society.
Through historical preservation, we look at history in different ways, ask different questions of the past, and learn new things about our history and ourselves. Historical preservation is an important way for us to communicate our understanding of the past to future generations.

The SEG Historical Preservation Committee was established to continue the preservation of important artifacts, instruments, and documents that had previously been a part of the SEG Geoscience Center, which was closed in 2009. Although the Committee disbanded shortly after all of the historical artifacts had been placed in temporary or permanent locations, SEG volunteers continue to visit, and sometimes clean, the artifacts on a regular basis.

SEG has formed exhibits detailing various aspects of the history of applied geophysics at several locations in Oklahoma and Texas including: the University of Oklahoma (Sarkey’s Energy Center, part of the ConocoPhillips School of Geology and Geophysics), Oklahoma State University (Noble Research Center, Boone Pickens School of Geology), and the Houston Geoscience Center. Some of the artifacts are on loan at the respective organizations, whereas others have found a permanent residence. Funding has been made available through the SEG Foundation (endowment fund) to support the ongoing preservation of these pieces.

Geophysical historians also often mention “The Doodlebugger” statue (designed by Jay O’Meilia) standing in the atrium of the SEG headquarters in Tulsa, Oklahoma. O’Meilia included the following words on the statue: “It is to those people who have played such an integral part in the successful application of geophysical methods that this statue is dedicated.”

Thank you to the devoted donors who have contributed to preserving our geophysical past with gifts to the Historical Preservation Endowment Fund. Also, many thanks in particular to the Houston Geoscience Center for their ongoing commitment to this success.
Gary and Lorene Servos have been annual donors to the SEG Foundation for over 20 years. They have been recognized as Trustee Associates and Sustaining Trustee Associates. Gary served on the SEG Foundation Board of Directors from 2002 to 2011. He was chair from 2007 to 2009 and vice chair in 2006, 2010, and 2011. He has been an SEG Member since 1962, served on various SEG committees over the past 15 years, was elected as treasurer of SEG from 2012 to 2014, and served as chair of the Real Estate Committee in 2012. He is an SEG Life Member.

Gary’s leadership and contribution to the SEG Foundation have been outstanding. He served on the 2006–2008 Major Gifts Campaign Leadership Committee and played a significant role in the team’s success to raise US$17.2 million in donations from corporations and individuals. The Major Gifts Campaign was a springboard for the continued active fundraising program that has resulted in over US$35 million being raised for SEG programs during the past 10 years.

As Foundation chair, Gary’s trademark was being a tireless worker and having a deep passion to enhance the value and credibility of the SEG Foundation in order to grow its fundraising efforts. He was closely involved with updating the Foundation bylaws and policies and procedures. In addition, the SEG Gary and Lorene Servos Scholarship for Applied Groundwater Exploration was created in 2005 and Gary is a strong supporter of the Geoscientists Without Borders® program that started in 2008.

On a personal note, I remember Gary and yours truly pushing a “doodlebugger maquette” around the floor of the SEG Annual Meeting exhibit hall about 10 years ago to raise money for the Foundation via raffle ticket sales — it was good fun for a good cause.

Gary earned a PhD in geophysics from Michigan State University in the 1960s and started work with Pan American Research, a forerunner of the well-known Amoco Research Center in Tulsa. He founded Ovation Data Services in 1976 and was president until transferring his role in the company to his son Gregory in 2013.

— Michael C. Forrest
Corporate Investors

Many industry leaders have partnered with the SEG Foundation to give back to the geophysical community that has supported them over the years. Corporate Sustaining Investors create new opportunities and expand on existing services provided through SEG to its membership and to the general public.

The SEG Foundation and SEG recognize and thank our corporate sustaining investors. The recognition list below is organized by lifetime giving to the SEG Foundation, including major contributions and employer matching programs.

$2,000,000 and more

- Chevron
- Schlumberger
- Anadarko Petroleum Corporation
- ExxonMobil

$1,000,000 to $1,999,999

- CGG
- PGS
- Halliburton
- Statoil
- TGS

$500,000 to $999,999

- Apache
- ion
- Paradigm
- KiwiEnergy

$250,000 to $499,999

- Total
- Marathon Oil Corporation
- IHS Markit

Note: All monetary values are in U.S. dollars.
Sustaining Trustee Associates

Sustaining Trustee Associates form an elite group of SEG Foundation contributors that share an ongoing commitment to the vitality of the SEG Foundation’s activities. Sustaining Trustee Associates are existing Trustee Associate members who have made an additional commitment of US$2,000 (or more) to the Annual Fund.

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- Jack and Catherine Threet
- Sally G. Zinke

*deceased
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SEG Foundation Trustee Associates directly contribute to the success of many important programs through financial support and outstanding leadership in the SEG Foundation’s philanthropic activities. Individuals can become a Trustee Associate with a one-time commitment of US$10,000 (or more) to the Annual Fund (outright gift or up to a five-year pledge). Trustee Associates are recognized by their cumulative lifetime giving to the SEG Foundation. Since their inception in 1989, Trustee Associates have contributed more than US$12.1 million to the SEG Foundation.

<table>
<thead>
<tr>
<th>Amount</th>
<th>Donors</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000,000+</td>
<td>Anonymous donor</td>
</tr>
<tr>
<td>$500,000 to $999,999</td>
<td>Debra and Mark Gregg/ KiwiEnergy Ltd.</td>
</tr>
<tr>
<td>$250,000 to $499,999</td>
<td>Rutt Bridges, Hank Hamilton, Robert* and Margaret Sheriff, Charles and Jean Smith Jr., David Worthington</td>
</tr>
<tr>
<td>$100,000 to $249,999</td>
<td>Richard and Fran* Baile, Craig and Betsy Beasley, Arthur Cheng, L. Decker Dawson, Richard Degner</td>
</tr>
<tr>
<td></td>
<td>Michael C. Forrest, Donald W. and Nancy* Frye, Fred and Kathi Hilterman, Thomas R. LaFehr</td>
</tr>
<tr>
<td></td>
<td>Bill* and Debbie Mitcham, Scott Petty Jr. and The Petty Foundation, Alexander Mihai and Catherine Ann Popovici, Gary and Lorene Servos, Jeff and Amie Springmeyer</td>
</tr>
<tr>
<td>$10,000 to $24,999</td>
<td>William and Evangeline Abriel, Dave and Roshan Agarwal, Fred Aminzadeh, Timothy and Victoria Berge, Richard S. Bishop, Ronald and Mary Bracken, Scott and Rachel Brannan, Jim and Kelly Brothers, Alistair and Mary Brown, Matthew A. Brzostowski, Lisa Buckner, John Castagna, Richard C. Cooper, Robert and Lois Corbin, Pete and Terri Cramer, T. Norman and Ruby Crook, Steve Crowell, Steve and Susan Danbom, Barry* and Lee Davies, Steven H. Davis, David C. DeMartini, Rocco and Julie Detomo, Peter and Kathy Duncan, Michael Dunn, Kim and Karen El-Tawil, Sam and Phyllis Evans*, Raymond Farrell, Paul M. Ferguson, Mary L. Fleming, Floyd F. Foster, Jim and Sherree Funk, Larry Funkhouser, James A. Gibbs, John and Elizabeth Gibson, Gretchen M. Gillis, Allen L. Gilmer</td>
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*deceased
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Trustee Associates Memorial Tribute

Sadly, the SEG Foundation lost three Trustee Associates in 2017. Each made a significant difference in the lives of those they knew and will sincerely be missed in our geophysical community and Foundation family.

Samuel “Sam” L. Evans
1929–2017
Trustee Associate since 1990

Nancy Nichols Frye
1933–2017
Trustee Associate since 1990

William Michael “Bill” Langley
1949–2017
Trustee Associate since 2013

Note: All monetary values are in U.S. dollars.
High Velocity Donor Club

Members of this distinguished donor club receive special opportunities to engage with leadership of SEG and the SEG Foundation, allowing for a higher level of involvement with Foundation activities. Members choose their giving level from US$1,000–$9,999 in support of the 2017 Annual Fund.

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Doodlebugger Society Donor Club

This is a special club that calls on the colorful history of geophysics for its name. “Doodlebugger” participation marks the beginning of a very special and personal relationship with the SEG Foundation. Members join with a donation between US$100–$999 in support of the 2017 Annual Fund.

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Most of these donors kindly included a gift to the SEG Foundation with their SEG membership dues payments. Donors contributed less than US$100 in support of the 2017 Annual Fund.

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