Our Mission: “The SEG Foundation advances geophysics today and inspires geoscientists for tomorrow through funding innovative activities and grant programs that benefit geophysicists, their professional community, the Society of Exploration Geophysicists, and the general public.”

The SEG Foundation thanks and acknowledges the generosity of our volunteers and SEG staff for their contributions to this year’s report. The Foundation also thanks our great students and professionals for sharing their photos and expertise during the year. Thank you!
Our Impact on People

Message from the SEG Foundation Board Chair

Most SEG members know the SEG Foundation is the fund-raising arm of SEG. The Foundation is an IRS 501(c)(3) charitable organization which essentially means donations to the Foundation are tax deductible in the United States. SEG and the Foundation exist to serve our members; that is people who have an interest in the science of geophysics to help understand the geology of the earth as well as exploration for oil and gas using geophysical tools.

“We the people” are well-known words used in documents to establish the framework for a plan or action that benefits a country or an organization. A comparison can be made to the SEG programs which benefit our people: 27,000 members of which 9,900 are students.

The Foundation financially supported 18 SEG programs that benefit SEG members in 2016 by contributing approximately $2.1 million to SEG. For example, the Honorary Lecture and Distinguished Lecture programs have annual attendance of about 8,000 people. Also, the SEG Wiki is rapidly growing with thousands of people visiting the website in 2016.

The best example of SEG’s role with people is the Geoscientists Without Borders® (GWB) humanitarian program. Our donors make the program possible; staff associated with 150 universities and nonprofits have been project managers of GWB programs during the past nine years, and several hundred students worked on 31 GWB projects around the world. More importantly, tens of thousands of people in 25 countries have been impacted by projects concerning water management, pollution mitigation, preparedness for earthquakes, tsunamis, landslides, and volcanic eruptions.

The SEG and Foundation are proud to be associated with educational programs and the GWB humanitarian program for the benefit of people around the world.

Thank you for your support!

Michael C. Jones
SEG Foundation Board of Directors
Effective board leadership is critical for sustaining a successful nonprofit organization. The Board of Directors is the governing body of the SEG Foundation. The board is comprised of dedicated industry leaders and volunteers who are passionate about geophysics and our professional community.

The important work of the SEG Foundation is carried out through the leadership of five board committees that provide business guidance and ensure our financial well-being. These committees include: Executive Committee, Audit Committee, Development Committee, Finance & Investment Committee, and Nominating Committee. In addition, board liaisons are assigned to specific Foundation-funded SEG program committees to ensure donor intentions are being honored.

2016 Officers

Michael C. Forrest  
Chair

Peter M. Duncan  
Vice Chair

Michael G. Loudin  
Treasurer

Dorsey Morrow  
Executive Secretary

2016 Directors

David C. Bartel

Glenn Bear

M. Lee Bell

Craig J. Beasley

Arthur Cheng

Pete Cramer

Erik Finnstrom

Julie Hardie

Magne Reiersgard

Anna Shaughnessy

Robert F. Talley

Cung Vu

Others Serving on Board Committees
Bill Barkhouse, Mihai Popovici, Gary Servos
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“As a doctoral candidate in marine geophysics at the University of South Carolina, I am extremely grateful for the financial assistance, guidance, and professional opportunities SEG provides for emerging geoscientists.”

— Christina Maschmeyer
2016-17 SEG Scholarship Recipient
The following charts display the sources of revenue and program and support expenses for 2016 and 2015 (in thousands):

**2016 Sources of Revenue**
- Contributions 68%
- Interest & Dividends 25%
- In-kind Support from SEG 7%

**2015 Sources of Revenue**
- Contributions 77%
- Interest & Dividends 12%
- In-kind Support from SEG 11%

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

**2015 Expenses**
- SEG Program Support 70%
- Management & General 16%
- Fundraising 10%
- Investment Fees 4%

Total Revenue, Gains (Losses) & Other: $1,444
- Contributions: $1,134
- In-kind Support from SEG: $120
- Interest & Dividends: $427
- Unrealized Gain on Investments: $512
- Loss on Bad Debt: ($750)

Total Revenue, Gains (Losses) & Other: $1,629
- Contributions: $2,210
- In-kind Support from SEG: $330
- Interest & Dividends: $338
- Unrealized Loss on Investments: ($861)
- Loss on Bad Debt: ($387)

Total Expenses: $2,686
- Grant Awards to SEG: $2,111
- Fundraising & Support Services: $575
- Net Assets, End of Year: $21,912

Total Expenses: $3,607
- Grant Awards to SEG: $2,526
- Fundraising & Support Services: $1,081
- Net Assets, End of Year: $23,154

Audited financial statements available at seg.org/foundation.
2016 Summary
Program and support expenses are funded by contributions from corporate and individual donors (new contributions and payments on existing pledges), the Foundation's Development Reinvestment Fee, and by the Annual Fund when necessary. Due to the downturn in the oil market, the Foundation anticipated lower contribution revenues compared to 2015 and significantly reduced its management and general support services and fundraising expenses during 2016. The Foundation net assets were $21,912,000 at the end of 2016.

Foundation-funded SEG Programs
During 2016, Foundation donors supported 18 SEG programs/activities, providing grants to SEG totaling $2.1 million. These programs include: Geoscientists Without Borders® (GWB), Scholarships, Student Membership, Field Camps, Student Leadership Symposium (SLS), Student Education Program (SEP), Challenge Bowl World Finals, Student Chapters, Travel Grants, International Geosciences Student Conference (IGSC), Summer Research Workshop Awards, Near Surface Geophysical Research Award, Distinguished Instructor Short Course (DISC), Distinguished Lecture, Honorary Lecture, SEG Online, SEG on Demand, and SEG Wiki.

Revenues: Contributions
A reduction in industry-wide corporate budgets during 2016 drastically impacted the overall fundraising results for the Foundation. However, note that revenue only includes new pledges and contributions made in the current year and does not include cash received from pledges made in prior years.

Expenses: Supporting Services
SEG reduced its staff by 35% during 2016 related to the oil market downturn over the last three years. This was done in an effort to drastically reduce the budget across the organization, including its subsidiaries and supporting organization, such as the Foundation. The Foundation Board of Directors and Development Committee recognized the reduction in budgets industry-wide and used this opportunity to focus on select fundraising projects and stewardship activities during 2016.

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 charity is considered to be highly efficient when a Cost to Raise $100 is $25 or less (charitywatch.org).

Fundraising Efficiency Formula

\[
\text{Fundraising Efficiency Formula} = \frac{\text{fundraising expenses}}{\text{contributions}} \times \$100 = \text{dollars spent per $100 raised}
\]
“I have always thought it strange that I can find funds to study an active fault, a tsunami, or an explosive volcano, but little to no funds are available to communicate the risk of these natural hazards directly to those most threatened by them. Geoscientists Without Borders® is one of the few organizations that is dedicated to filling this gap.”

— Ron Harris
GWB Project Lead
humanitarian programs
Supporting Global Communities in Need

GWB was established by the SEG Foundation in 2008. GWB is a humanitarian program that transforms lives in developing and vulnerable communities, while promoting the importance of geosciences beyond the realm of oil and gas. By design, each project must involve students. They are the heart of the program and the near-future industry leaders. At the end of 2016, the program has awarded 31 projects in 25 different countries.

The GWB Technical Committee reviewed 22 project proposals in 2016. From those proposals, four new projects were selected for funding:

“Geophysical Mapping of the Challapampa and Punata Aquifers in Bolivia”
Lund University (Sweden); $71,818 GWB funds

This project focuses on geophysical mapping of the aquifers in Bolivia. In both cases the aquifers are poorly documented in terms of geometry and variation in aquifer properties, which is key information for adequate management and protection of the water resources. The Challapampa and Punata aquifers are essential for the water supply of the local communities and agriculture in the respective areas, serving populations of 300-400 thousand people. Local water supply and environmental authorities are working in the respective areas but do not have the tools required for a comprehensive overall picture of the aquifer system. Information about the extent of the aquifer and existence of possible protective layers with sufficient areal cover and spatial resolution is needed in order to manage and protect the groundwater for use of future generations.

“Capacity Building in Hydrogeophysics at University of Malawi”
University of Illinois (United States); $100,000 GWB funds (2-year project)

Groundwater is an important resource for Malawi’s predominantly rural population. However, provision of potable water to the majority of the country’s population is still a key challenge due to, among other reasons, lack of knowledge on the characteristics of the groundwater; rapid environmental degradation and population increase. These issues are exacerbated by climate change and have consequences on sustainable utilization of groundwater resources. This project will locate new wells to provide clean drinking water to the villagers and build the geoscience capacity of Malawi. Electrical resistivity profiling will be used to map zones of high- and low-quality groundwater so that new, reliably fresh water points can be constructed in the villages.
“GPS Training and Application to Seismic Hazard in Southern Haiti”
URGeo – Faculte des Sciences (FDS) of the State University of Haiti; $100,000 GWB funds (2-year project)

Urban development continues at a fast rate in Port-au-Prince and nearby cities along the seismically active Enriquillo fault. Accurate characterization of the regional earthquake hazard in this area is key to inform urban development and construction practices during the long reconstruction phase through which Haiti is currently undergoing. The seismic hazard map currently in use is significantly incomplete in the metropolitan area of Port-au-Prince and the surrounding Cul-de-Sac basin. In addition to its applications in geophysics, GPS – and more generally the Global Navigation Satellite System (GNSS) – has become the technique of choice for surveying and navigation applications operations worldwide. This project will provide new GPS geodetic data to refine seismic hazard estimates in the region of rapid economic and demographic growth of southern Haiti, and train the next generation of Haitian engineers in modern space.

“Geophysics in Support of Local Farmers and Groundwater Dependent Agriculture in Lao PDR”
Flinders University (Australia); $49,965 GWB funds

Lao PDR is a poorly-developed country with a large rural population which relies almost exclusively on agricultural production systems as their means of livelihood. Even though surface water is abundant, Lao PDR is still vulnerable to the adverse effects of climate variability and climate change. Shortages, both spatially and temporally, are increasingly being met with supplies from groundwater. As groundwater management is still at a very basic level and perhaps the single most important constraint to progress, this project’s goal is to build human and institutional capacity in-country and resilience in agricultural productivity through sustainable use of groundwater for local farmers on the Vientiane Plain, Lao PDR. The project will develop and progress hydrogeological field mapping and provide local students training opportunities using a number of different geophysical techniques, including frequency and time domain electromagnetic induction (FDEM and TDEM), electrical resistivity, ground penetrating radar (GPR), borehole geophysical logging (natural gamma and electromagnetic induction), and hydrogeological field assessment skills.

2016 GWB Committee Members:
Michael Burianyk (chair), Najib Abusalbi, Nick Lagrilliere, Isabelle Lambert, Doug Laymon, Phoebe McMellon, Robert Merrill, Richard Nolen-Hoeksema, Gregg Parker

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

Supporting Societies:

[Logos of supporting organizations]
“The research-oriented career development topics broadened my knowledge, increased my wealth of experience, and provided the confidence I need.”

— Uzonna Anyiam
Past SLS Participant
The SEG Scholarship Program provides scholarships to U.S. and international students attending a university to pursue a career in applied geophysics or a closely-related field of study. Awards typically range from $500-$10,000 per academic year! Scholarship terms are one academic year.

Since 1956, the Scholarship Program has awarded more than $9.2 million in scholarships to students worldwide!

In 2016, the SEG Foundation provided funding for 81 different scholarships (see award list). Out of the 655 eligible applications received and ranked by the SEG Scholarship Committee, 148 students received scholarships totaling $560,000!

2016 Scholarship Committee Members:
Andreas Rueger (chair), Esther Babcock, Lorie Bear, Ron Kerr, Camelia Knapp, Bruce Mattocks, Zhaobo (Joe) Meng, Karl Schleicher

Map indicates the country locations of 2016-17 recipient universities.
2016-2017 Scholarship Awards:

Sponsored Awards:
Anadarko/SEG Scholarship
SEG/J. Richard & Shirley Hunt Scholarship
SEG/CGG Foundation Scholarship
George V. Keller Scholarship
SEG/Chevron Scholarship
SEG/Foundation/Marathon Oil Scholarship
SEG/Andreas Cordsen Scholarship
SEG/Permian Basin/Lee Miller Scholarship
Norm & Ruby Crook Scholarship
SEG/John W. Pierce Scholarship
Dr. S. Norman Domenico/SEG Scholarship
SEG/Ulrich Schmucker Scholarship
SEG/Total International Scholarship
SEG/Foundation of OKC Scholarship
SEG/Foundation Scholarship

Endowed Awards:
AGIP Scholarship
KEGS/Phillip Hallof Memorial/SEG Scholarship
SEG/James L. Allen Scholarship
SEG/Lucien LaCoste Scholarship
SEG/Foundation/Apache Scholarship
SEG/David R. Lammein Scholarship
SEG/ARCO Scholarship
SEG/Landmark Scholarship
Michael Bahorich/SEG Scholarship
Richard & Rolande Lockhart Scholarship
SEG/David Bartel Scholarship
David E. Lumley Scholarship
Michael L. Batzle Scholarship
SEG/Thomas A. Mazza Memorial Scholarship
Ted Born Memorial Scholarship
SEG/Barbara McBride Memorial Scholarship
SEG/John R. Butler Jr. Scholarship
Charles C. McBurney Memorial Scholarship
SEG/Chevron/Texaco E&P Scholarship
Billy F. Mitcham Sr. Memorial Scholarship
Dallas Geophysical Society Scholarship
SEG/Henry Bates Peacock Scholarship
DGS/Karen Kellogg Shaw Memorial Scholarship
Alexander Mihai & Catherine Ann Popovici Scholarship
John D. Delbridge Memorial Scholarship
SEG/Schlumberger Scholarship
SEG/Denver Geophysical Society Scholarship
SEG/Gary & Lorene Servos Scholarship
SEG/Norman & Shirley Domenico Scholarship
SEG/Shell E&P Scholarship
SEG/Excel Geophysical Services Scholarship
Robert E. & Margaret S. Sheriff Scholarship
ExxonMobil Upstream Research Co. Scholarship
GSH/Charlie & Jean Smith Scholarship
Michael C. Forrest Scholarship
Michael T. Spradley Memorial Scholarship
Donald & Nancy Frye Scholarship
SEG/EAGE/Thomsen/BP Scholarship
Geophysical Society of Alaska Scholarship
EAGE/SEG/Thomsen/BP Scholarship
GSH/Carlton-Farren Scholarship
SEG/Jack & Catherine Threet Scholarship
GSH/Aubra Tilley Scholarship
Michael A. & Catherine Ann Popovici Scholarship
SEG/Foundation Scholarship

Thank you to all of our donors (including individuals and sections) who continue to impact the lives of individual students and the future of geophysics through the SEG Scholarship Program!
student membership dues

The Student Dues Corporate Sponsorship Program allows 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.

The feedback from student members participating in the program throughout the years has provided SEG and our strategic partners with valuable insight into the motivations, needs, and wants of geosciences students. The knowledge gained has been used as a guide on how to best organize SEG programs and appropriately bundle valuable and industry-related learning opportunities for student members.

2016 Sponsored Students:
During 2016, 3,060 students received paid SEG membership dues as a result of generous corporate sponsors. Approximately 81% of the program recipients resided outside of the United States and 23% were female students.

Global Impact of Student Membership:
The SEG recorded a total of 9,900 student members in 2016. Regardless of location, every student paid $21 in membership dues.

Starting in 2017, student membership dues will have new rate codes: $21 for World Bank Group IV, $10 for World Bank Group III, and $5 for World Bank Groups I and II.

The SEG Foundation proudly thanks our 2016 corporate donors:
The SEG Foundation proudly thanks our 2016 corporate donors and endowments:

SEG Field Camp Grant Program
In 1993, the Field Camp Grant program was established by the SEG Foundation 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.

2016 was a successful year with the grant application process yielding 15 applications for funding, requesting a total of $227,781. From the submitted applications, the committee selected 12 to receive awards totaling $119,275. Awards ranged in size from $5,800 to $15,000. In total, 714 students participated in field camps sponsored in whole or in part through funding provided by donors to the Field Camp Grant Program.

2016 Field Camp Grants:
- **Bulgaria:** Geophysics Field Camp “Sozopol 2016”; University of Mining and Geology “St. Ivan Rilski”
- **Indonesia:** 2016 Geophysics Field Camp; Universitas Gadjah Mada
- **Kenya:** Jomo Kenyatta University Geophysical Society Geophysical Field Camp; Jomo Kenyatta University
- **Poland:** SEG Student Chapter Cracow and SEG Student Chapter Bucharest Joint Field Camp; AGH University of Sci & Tech
- **Russia:** 2016 Field Camp Project: Discovering the White Sea; Gubkin Russian State University of Oil & Gas
- **Russia:** 2016 SEG Field Camp; Perm State National Research University
- **South Africa:** AfricaArray; University of Witwatersrand
- **United States:** GeoFORCE; The University of Texas at Austin
- **United States:** Geophysics Field Camp; Colorado School of Mines
- **United States:** Geophysics Field Camp 2016; University of Houston
- **United States:** Marine Geology & Geophysics Ship-board Field Experiences; The University of Texas at Austin
- **United States:** Summer of Applied Geophysical Experience (SAGE); Purdue University

2016 Field Camp Committee Members:
Madeline Lee (chair), Ingo Geldmacher, Nawfel Gharieni, John Lane, Tonya Richardson, Jeffrey Shragge, Justin Simmons, Steven Sloan

The SEG Foundation proudly thanks our 2016 corporate donors and endowments:

Geophysical Pursuit, Inc (founding investor of the SAGE Endowment)
Rutt Bridges Summer Field Camp Grants
Richard Degner Field Camp Grants
O. S. Petty Field Camp Grants
student leadership symposium

SEG/Chevron Student Leadership Symposium (SLS)

The SEG/Chevron Student Leadership Symposium (SLS) offers travel grants that cover the expenses for travel, lodging, and conference registration to SEG’s Annual Meeting to students who are current active officers of an SEG Student Chapter. This focused two-day program for developing leadership skills includes an address by the SEG president, best practices presentations from selected Student Chapters, professional leadership coaching, and an organized team building activity. Following the two-day event, student participants advance their technical knowledge by attending the SEG Annual Meeting.

Chevron representatives play an active and critical role in developing the materials and the professional leadership module, as well as instruction and speakers during the SLS program.

SLS 2016 (Dallas, Texas):
The ninth annual SLS was held 15-16 October 2016 in conjunction with the SEG Annual Meeting in Dallas, Texas. After receiving 127 viable applications, resulting in the selection of 51 participants, the SEG Travel Grants Committee narrowed the recipients to 10 women and 41 men from 24 different countries, representing 51 SEG Student Chapters worldwide.

SLS by the Numbers

The SEG Foundation proudly thanks our 2016 corporate donor:

The SEG Foundation proudly thanks our 2016 corporate donor:
Since 2008, the SEG/ExxonMobil Student Education Program (SEP) has enhanced the traditional way of learning by exposing geosciences students to how the industry works. The program offers travel grants to most students to cover the expenses for travel, lodging, and conference registration to SEG’s Annual Meeting. This two- to two-and-a-half-day short course prepares college students for the challenges of an oil industry career. The program includes lectures and exercises, and focuses on multidisciplinary subsurface integration aspects of geophysics. Following the event, student participants advance their technical knowledge by attending the SEG Annual Meeting.

ExxonMobil plays an active and critical role in the program by providing course materials and leading professional geoscientists who act as instructors and facilitators during the entire SEP program(s).

SEP 2016 (Poland):
SEP Poland (8-10 July) was held in conjunction with the SEG International Geosciences Student Conference (IGSC) held 11-14 July in Katowice, Poland. With a total of 138 applications submitted, event invitations were given to 40 students from 29 universities in Australia, Belgium, Croatia, Czech Republic, Egypt, France, Germany, Greece, Hungary, India, Israel, Italy, Kenya, South Korea, Norway, Poland, Portugal, Russia, Saudi Arabia, Turkey, Ukraine, and the United Kingdom. Of the 40 participants (17 female, 23 male), 30 were travel grant recipients.

SEP 2016 (Dallas, Texas USA):
SEP Dallas (14-16 October) included 40 students (17 female, 23 male) from universities in Argentina, Canada, Colombia, United States, and Venezuela, and with nationalities from 16 countries. Of the 40 participants, 30 were travel grant recipients. SEP Dallas was held in conjunction with the SEG International Exposition and 86th Annual Meeting held 16-20 October 2016.

The SEG Foundation proudly thanks our 2016 corporate donor:
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 2016 SEG Challenge Bowl World Finals (17 October) saw its largest participation to date, with a total of 16 teams (32 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.

2016 Challenge Bowl Finalists:
Emceed by SEG Foundation Vice Chair Peter Duncan, the heated contest saw the team from the Rocky Mountain Region, consisting of Brigham Young University students Scott Meek and Trevor Tuttle, take home first place (248 points). Second place went to Eric Rops and Scott Keating from the University of Calgary (224 points).

Many thanks! Along with Anadarko, Chevron, and Shell who sponsored the event through the SEG Annual Meeting, 61 individual donors and Noble Energy, Inc. helped to make the 2016 World Finals event possible.
SEG Student Chapters

SEG is committed to connecting the world of applied geophysics and our Student Chapters are an excellent resource to increase interest among students of geophysics. 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 the science of geophysics.

At the end of 2016, SEG Student Chapters reached 365 in number and is still growing. The list below shows the locations of SEG Student Chapters around the world.

SEG Student Chapter Excellence Program

Every Student Chapter is required to submit an Annual Activity Report to remain active with the Society. The information provided in the reports was used to determine the 2016 Student Chapter ranking (Base, Ridge, Summit, or Inactive). All submitted activities must have taken place between 1 January 2015 and 31 December 2015. Reports submitted after the deadline are automatically awarded base level. Student Chapters who do not submit the Annual Activity Report are placed on inactive status.

How the chapters are ranked (up to 100 points):
10 pts – Student Chapter officer/member roster (required for all active SEG Student Chapters)
20 pts – Participation in SEG student programs or activities
20 pts – Chapter outreach
10 pts – Collaboration with other chapters or universities
10 pts – Co-curricular activities
10 pts – Faculty advisor summary

Congratulations to the 2016 Best SEG Student Chapter:
Pandit Deendayal Petroleum University SEG Student Chapter (India)

365 SEG Student Chapters

37 – Asia
38 – Latin America and Caribbean
61 – Middle East, North Africa, and West Central Asia
88 – North America
23 – North Europe
23 – Pacific
46 – South and Central Europe
49 – Sub-Saharan Africa

The SEG Foundation proudly thanks our 2016 donors:

Student Support Endowment
student networking

Travel Grants
The SEG Travel Grants Committee reviewed more than 600 student applications in 2016 for eight different program opportunities. More than 100 applications were received for each of SEP/ExxonMobil Poland, SEP/ExxonMobil Dallas, SLS/Chevron Dallas, and SEG Annual Meeting Technical Program Travel Grants. The other grant evaluations included the Near Surface Geophysical Research Award, Summer Research Workshop, and AAPG/SEG ICE in Barcelona. In total, 143 grants were awarded by the SEG Travel Grants Committee in 2016.

Technical Program Travel Grants
Formerly called Annual Meeting Travel Grants, the SEG Technical Program Travel Grants help students and recent graduates to defray the costs of travel, accommodations, and meals so they can attend the SEG Annual Meeting to present their papers.

2016 Travel Grants Committee Members:
Brian Miller (chair), Michelle Abraham, Cameron Coatsworth, Titus Emmanuel, Francesca Fazzari, Seth Haines, Tim Maciejewski, Brian Sabin, Brackin Smith, Kyle Spikes, Payson Todd, and Chirag Tyagi.

International Geosciences Student Conference (IGSC)
The International Geosciences Student Conference (IGSC) provides opportunities to integrate students, young geophysics professionals, and companies from around the world. Engaged students and professionals are brought together to participate in scholarly activities geared towards discovery and career development.

With the continued financial support from Statoil, and in collaboration with EAGE, the 7th IGSC took place in Katowice, Poland 11-14 July 2016. The conference gathered 135 specialists, professors, students, and young professionals from different disciplines of earth sciences. Sixty students presented their research during the conference, 37 in 4 different poster sessions (8 in geology session, 16 in geophysics session, 7 in oil and gas session, and 6 in polar and environmental studies session); and 23 oral presentations also in 4 sessions (6 in geology session, 6 in geophysics I session, 6 in geophysics II session, and 5 in oil and gas session).

Networking events were an important part of the conference. A wide variety of possibilities were offered for connecting with participants, lecturers, and exhibitors in a less formal surrounding.

The SEG Foundation proudly thanks our 2016 donors:
research grants

SEG Summer Research Workshop Grant Awards

The SEG Summer Research Workshop Grant Awards provide undergraduate and graduate students in good standing and enrolled in a relevant geosciences program at an accredited institution the opportunity to attend SEG Summer Research Workshops (SRW). The awards reduce each student’s registration fee by $500.

Six students received grants to participate in the SEG-AGU Workshop: Upper Crust Physics of Rocks in Hilo, Hawaii in July 2016. This three-day workshop featured more than a dozen invited speakers from industry, academia, and research institutions to share in their rock physics work. The workshop also offered a geological field trip to Hawaii Volcanoes National Park.

Near Surface Geophysical Research Award

Created in 2015, the Near Surface Geophysics Section of SEG is the founding supporter of the SEG Near Surface Geophysical Research Award Endowment. 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. The award is intended to offset expenses directly related to the awardee’s 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 2016, the SEG Travel Grants Committee reviewed applications from 12 students. As a result, the first Near Surface Geophysical Research Award winner was Brady Flinchum, a Ph.D. student at the University of Wyoming.

The SEG Foundation proudly thanks our 2016 donors:

Arthur Cheng – Summer Research Workshop Awards (sponsored)
Near Surface Geophysics Section – Near Surface Research Award Endowment
“Excellent material, very knowledgeable, well-prepared, excellent one-day course.”

— Anonymous

2016 DISC participant, Dallas
distinguished programs
DISC program

SEG Distinguished Instructor Short Course (DISC)
The SEG Distinguished Instructor Short Course (DISC) is an eight-hour, one-day short course on a topic of current and wide-spread interest. The DISC Instructor is a nominated prestigious world-class instructor lecturing worldwide.

2016 Instructor
James (Jim) Gaiser

3C Seismic and VSP: Converted Waves and Vector Wavefield Applications
Gaiser’s course was presented in more than 14 locations, reaching over 325 participants in 8 different countries. This course was devoted to wavefield properties of 3C seismic and VSP data, including anisotropy, coordinate systems, vector wavefields, and S-wave applications.

Students obtained an understanding of theoretical and practical aspects of 3C seismic and VSP, including:
• How to use PS-wave and vector wavefield data to improve rock property
• Basics of PS-wave registration, velocities and birefringence (S-wave splitting)
• Elastodynamic processes that generate converted waves and how they relate to elastic rock properties
• Issues of PS-wave asymmetry and illumination, and how 3C surface and VSP wavefields are related
• Unique characteristics of PS-wave processing: time registration with P-waves, S-wave splitting, VPIVS analyses, velocities, and conversion-point gathering
• Identifying and accounting for potential vector infidelity effects
• Interpretation of converted-wave and VSP wavefields
• Applications of 3C seismic and VSP data for migration and elastic impedance inversion, imaging through gas, fracture/stress characterization, and time-lapse

The SEG Foundation proudly thanks our 2016 endowment donors:

Dick and Fran Baile
Charles Weiner
distinguished lectures

SEG Distinguished Lecture (DL) Program
Selection as a Distinguished Lecturer is viewed as a major honor and recognition of excellence by the 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.

2016 Quarters 1 & 2 SEG Distinguished Lecture
Dr. Joseph (Joe) Dellinger, Senior Research Geophysicist, BP

Forensic data processing – Revealing your data’s hidden stories
We are asking for more and more from our seismic data: more efficient acquisition, broader bandwidth, sources that are more environmentally friendly, accurate amplitudes for AVO and 4D. Acquisition and processing are undergoing a revolution to support these needs.

The lecture comprised of three parts: 1) What is your source really doing? 2) What does the background noise in your data look like? and 3) Can we do anything useful with that background noise? The goal of the talk was to start a participant on their way to becoming a data connoisseur, instead of merely an indiscriminate consumer. The talk was example-driven for a broad audience, however, tutorial sections were available for academic audiences wanting to dig deeper.

2016 Quarters 3 & 4 SEG/AAPG Distinguished Lecture
Dr. Steven Constable, Scripps Institute of Oceanography

Geophysical Inversion: Which Model Do You Want?
With a broad suite of geophysical inversion tools now available, it is easy to submit your data, turn the crank, and obtain a model. But is the model meaningful? This lecture provided an understanding of the practical issues associated with geophysical inversion, as well as a roadmap for avoiding common pitfalls.

Mapping Gas Hydrate using Electromagnetic Methods
Gas hydrate is found globally on the continental shelves and is important as an unconventional hydrocarbon source, a hazard to drilling and seafloor infrastructure, a potential source of potent greenhouse gas, and a confounding resistor in the interpretation of conventional marine EM data. This lecture described marine gas hydrate, laboratory studies of its electrical properties, and the equipment that we use to image it, with case studies from offshore California and the Gulf of Mexico.

Marine EM: The Past, The Present, and The Future
The high cost of deepwater exploration motivated the development of commercial marine magnetotelluric (MT) exploration in 1995, but it wasn’t until marine controlled-source electromagnetic (CSEM) methods burst upon the industry science with the formation of three new contactors in 2002 that things got really exciting. EM remains an important tool for offshore exploration. Early mistakes were made as a result of poor instrumentation and a lack of good interpretation tools.

The SEG Foundation proudly thanks our 2016 corporate donors:
honorary lectures

SEG Honorary Lecture (HL) Program

With the continued financial support from Shell, the SEG is able to provide six traveling lectures each year in all of the major regions of the globe: Europe, Latin America, Middle East & Africa, North America, Pacific South, and South and East Asia.

Honorary Lecturer 2016 – Europe
Michael Kemper, Ikon Science (United Kingdom)
*Infusing rock physics into seismic inversion*

- Total number of attendees: 1,255
- Number of lectures: 25 (including 14 universities)
- Countries visited (12): Azerbaijan, Czech Republic, Denmark, France, Germany, Hungary, Italy, The Netherlands, Norway, Serbia, Switzerland, United Kingdom

Honorary Lecturer 2016 – Latin America
Pedro Alvarez, Rock Solid Images (USA)
*Rock-property estimation from seismic and CSEM attributes using a rock physics framework*

- Total number of attendees: 1,321
- Number of lectures: 22 (including 13 universities)
- Countries visited (5): Brazil, Colombia, Mexico, Trinidad & Tobago, Venezuela

Honorary Lecturer 2016 – Middle East & Africa
Said Mahrooqi, Petroleum Development Oman LLC (Oman)
*Land seismic acquisition – the highs and lows of very high data rates and very low frequencies*

- Total number of attendees: 752
- Number of lectures: 18 (including 9 universities)
- Countries visited (9): Egypt, Kuwait, Nigeria, Oman, Qatar, Saudi Arabia, South Africa, Tunisia, United Arab Emirates

Honorary Lecturer 2016 – North America
Scott Michell, BP (Gulf of Mexico)
*Subsalt Imaging: Snapshots in Time, Reflections, and Next Steps*

- Total number of attendees: 824
- Number of lectures: 20 (including 14 universities)
- Countries visited (2): Canada, USA
“It was an excellent HL and was delivered in a professional way. Attendees have enjoyed the talk. Said went beyond and presented omega exercises to help students to understand the content much better.”

Honorary Lecturer 2016 – Pacific South
How-Wei Chen, National Central University (Republic of China)
*Crossing boundaries among near-surface, energy-resource exploration, earthquake, and tectonic studies*

Total number of attendees: 514
Number of lectures: 17 (including 12 universities)
Countries visited (3): Australia, Indonesia, New Zealand

Honorary Lecturer 2016 – South and East Asia
Jie Zhang, University of Science and Technology of China (China)
*Looking into the near surface imaging technologies and results*

Total number of attendees: 732
Number of lectures: 12 (including 9 universities)
Countries visited (3): Bangladesh, China, India

The SEG Foundation proudly thanks our 2016 corporate donor:
“Excellent way to self-assess competencies. It can help professionals at different career stages to know which areas need to be learned.”

— Fernando Castellanos
University of Alberta; CMS participant
digital knowledge
SEG on Demand – A global outreach

SEG on Demand training helps individuals to gain the knowledge and expertise needed to stay competitive. The new SEG on Demand platform offers a much more learner-friendly environment, giving them access to recordings of SEG’s Distinguished Instructor Short Courses (DISC), Virtual Courses, and the two most current years’ Annual Meeting Technical Program Recordings. Leon Thomsen’s Geophysics 101, Lessons 1-6, are currently available through SEG on Demand. In addition, learners have access to a full library of International Human Resources Development Corporation (IHRDC) eLearning courses.

One of the biggest advantages with the new platform is that SEG is now able to offer bundled learning subscriptions to corporations and institutions, affording a savings of 50% or more off the member rates. Employees and students then have access to the subscription learning at their convenience for an entire year.

DL & HL Recordings
SEG on Demand continues to build a library of Distinguished Lecture (DL) and Honorary Lecture (HL) recordings made available at no additional charge to all SEG members. Mandarin translations of the 2009 HL lecture by Andrew Long and Per Avseth were completed in 2016.

Competency Management System (CMS)
SEG’s new Competency Management System (CMS) was developed to help those in the global geophysics community identify new learning opportunities and manage their careers. SEG partnered with IHRDC, a respected provider of training and competency development solutions for the oil and gas industry, to provide this valuable tool.

This system, available free of charge to SEG members, provides an easy way for users to assess their current capabilities against specific competency models for key geoscience careers. The software is designed to easily identify competency gaps based on assessment results, then recommend a learning plan that helps close those gaps. Users are referred to SEG training resources, including eLearning courses, along with generic third-party course titles, SEG technical papers, CE courses, books, and on-job work assignments.

Ten SEG competency models were developed and vetted by industry experts:

- Acquisition RnD Geophysicist
- Engineering Geophysicist
- Environmental Geophysicist
- General Geophysicist
- Non-Seismic Geophysicist
- Processing/Imaging RnD Geophysicist
- Quantitative Seismic Interpreter
- Seismic Acquisition Geophysicist
- Seismic Interpreter
- Seismic Processing/Imaging Geophysicist

Plans for 2017:

- SEG on Demand. Continue to identify and develop new on-demand learning products that will enable learners to improve their skills. Geophysics 101: Lesson 7 is in the final stages of review and should be available in 2017.
- DL & HL Recordings. Seismic imaging: Kirchhoff, beam, WEM, RTM, anisotropy, what is next? by Tariq Alkhalifah is currently being translated into Mandarin.
- CMS. Review of the current system is ongoing, and a new release is expected in 2017 that will further enhance the value of this tool for SEG members.
The SEG Wiki – wiki.seg.org – a publicly accessible and editable website, is open to all users registered with SEG. The goal of the SEG Wiki is to expand the world’s knowledge of applied geophysics, chronicle the advances in the science, and engage emerging and established professionals. The contents of the wiki are dedicated to the discipline and the people and technology that support it. The wiki is maintained by the SEG Wiki Committee, volunteers, and readers throughout the world.

2016 Progress
In 2016, the SEG Wiki reached 15 million views. Volunteers made 5,325 individual contributions to the content and grew the number of articles in the wiki by an additional 221.

Major upgrades to the wiki included software upgrades for translating content into non-English languages and a simplified editing interface. The wiki continues to engage the geoscience community in preserving the legacy of the SEG by expanding the world’s knowledge of the people and science of applied geophysics.

2016 SEG Wiki Committee Members:
John W. Stockwell Jr. (Chair), Maria Angela Capello, Raul Cova, Joe Dellinger, Maitri Erwin, Matt Hall, Clare Nagassar, Karl Schleicher, Kai Zhang

seg online

2016 Enhancements (Information Technology)
The following enhancements were made to SEG Online:

- Launched a new SEG Online website in tandem with the SEG rebranding. The website focuses on a mobile first strategy, a new search tool that returns content on the website, as well as product listings and a clean, streamlined look and feel.
- Launched an integration with a new Learning Management System (LMS) and a Competency Management System (CMS); identifying new learning opportunities for members managing their careers.
- Launched an integration with SmartBrief (digital media publisher) and Elsevier Geofacets (search and discovery tool for online journals).
- Improved dues/membership online options for a more user-friendly experience.

The SEG Foundation proudly thanks our 2016 donor:

Apache

Rutt Bridges: SEG Online Endowment
“[SEG programs] enhance the perception of geophysics and educate – not just geoscientists – about the significant impact our profession has in the world. Dan and I are proud to say that we play a part in making SEG great.”

— Anna and Dan Shaughnessy
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Many industry leaders have partnered with the SEG and SEG Foundation to give back to the geophysical community that has supported them. Corporate Sustaining Investors create new opportunities and expand on existing services provided through the SEG to its membership and the general public. The SEG Foundation and SEG recognize and thank our corporate sustaining investors:

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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 $2,000 (or more) to the 2015 Annual Fund.

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SEG Foundation Trustee Associates (TA) directly contribute to the success of many important programs through both financial support and outstanding leadership in SEG’s philanthropic activities. Individuals can become a Trustee Associate with a one-time commitment of $10,000 to the Annual Fund (outright gift or up to a five-year pledge). TA donors are recognized by their cumulative giving to the SEG Foundation.

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### Trustee Associates Memorial Tribute

Sadly, the SEG Foundation lost four Trustee Associates in 2016. Each made a significant difference in the lives of those they knew, and will sincerely be missed in our geophysical community.

---

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Trustee Associate since 1990  

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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 $1,000 to $9,999 in support of the 2016 Annual Fund.

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Karl and Carol Schleicher
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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 $100 and $999 in support of the 2016 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 who contributed less than $100 in support of the 2016 Annual Fund.

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The SEG Foundation is fortunate to have many loyal and generous donors who believe in the mission of the SEG. Many individuals want to “give back” to the Society and community that has served them and their families well over the years. There are many ways to give, and choosing the right option for you is important. Below are some giving options available to the SEG Foundation. If you have any questions about making a gift, please do not hesitate to contact us directly at foundation@seg.org or (918) 497-5515. Thank you again for your time, talent, and treasure to help advance and inspire the members of our geophysical community!

- **Make a gift by check.** Please make your check out to “SEG Foundation” and mail it directly to our Tulsa Office at 8801 S. Yale Ave, Suite 500, Tulsa, OK 74137 USA. If making a year-end gift, the date you mail (postmark) the check is considered the date of delivery.

- **Make a gift online.** The SEG Foundation’s online giving process gives donors the flexibility to make a donation anytime, anywhere. Our secure online processing system assures that credit card information is protected, and multiple SEG program options allow donors to give to the cause of their choice. Try it today! [seg.org/donate](http://seg.org/donate)

- **Make a gift of stocks.** Often, long-term appreciated assets provide a charitable deduction for the full market value of the security. Such donations also allow the donor to avoid capital gains tax. Please contact the SEG Foundation if you have any questions about making a gift of stock or if you require the account information to complete your gift.

- **Corporate matching gifts.** Many companies will match donations made by their employees, their families, and retirees. Please ask your Human Resources office about your company’s matching process – and double the impact of your gift today!

- **Estate and planned gifts.** Making a planned gift through your estate is a great way to establish your legacy and celebrate the science and industry that contributed to your own success. Planned gifts can provide income and tax benefits to you and your loved ones. Please contact the SEG Foundation for more information.

- **Seek financial advice.** Not surprisingly, the rules get more complicated when the gift is more complicated. To determine what makes the most sense for you and your family regarding charitable giving, we encourage you to speak with your financial advisor to determine the best method and timing when giving.

- **Other notes.** Gifts of $500 or more directed to endowments and specific programs are accessed a one-time 5% development reinvestment fee to support the work of the SEG Foundation. The SEG Foundation is a registered 501(c)(3) non-profit. Therefore, your contributions are tax deductible in the United States.

Note: All monetary references in this report are in U.S. dollars.
thank you!

For more information on the impactful programs and activities listed in this report, please visit:

SEG: seg.org
SEG Foundation: seg.org/foundation

GWB: seg.org/gwb
Student Programs: seg.org/students
Membership: seg.org/membership

Distinguished Programs: seg.org/education
SEG on Demand: seg.org/education
SEG Wiki: wiki.seg.org

Foundation Donors: seg.org/foundation
Online Giving: seg.org/donate