



2024

ANNUAL
REPORT

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 (SEG), and the general public.

OUR HISTORY

The SEG Foundation is the fundraising arm of SEG. The Foundation was incorporated by the State of Oklahoma in 1987 as a 501(c)(3) not-for-profit organization, which means donations to the Foundation are tax deductible in the United States. Since inception, the Foundation has worked with thousands of individual, society/section, and corporate donors to provide tens of millions of philanthropic dollars to support geoscience programs that meet the needs of students and professionals in the geophysics community worldwide.

Message from the Chair

In 2024, the SEG Foundation continued its important mission of advancing geophysics today and inspiring geoscientists for tomorrow. With the collective efforts of dedicated volunteers, SEG leadership, and generous donors, we strengthened our framework for delivering impactful programs and fostering innovation in applied geophysics.

The Foundation added nine new Trustee Associates in 2024, an important step in expanding our pool of committed donors who support our work through their time, talent, and resources. This growth was made possible by the generous matching contributions from individuals who are deeply invested in our mission, and we thank them deeply. Together, we are shaping the next chapter of applied geophysics.

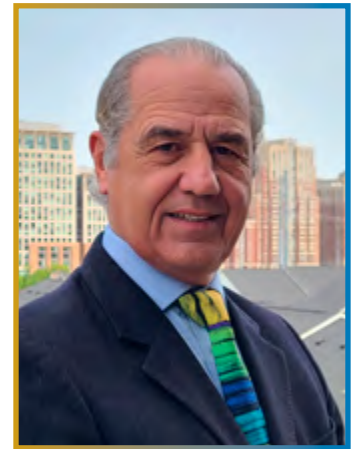
The SEG Foundation proudly supported 16 programs in 2024, benefitting thousands of SEG members worldwide. Noteworthy among these were scholarships, training initiatives like SEG EVOLVE, and humanitarian projects such as Geoscientists without Borders®, which continue to highlight the transformative power of geophysics in addressing global challenges like water scarcity and environmental hazards. Our partnerships, including those with corporate supporters like Chevron, Shell, ExxonMobil, Baker Hughes, and Geophysical Pursuit demonstrate the Foundation's ability to bring geophysics to life in service to society.

In recognition of exceptional contributions, we celebrated our annual awards program, presenting honors such as the Dick Baile Award to Arthur Cheng and new awards including the Director's Award, Sally Zinke Individual Achievement Award, and the Thomas & Evonne Smith Corporate Impact Award. These accolades reflect the remarkable individuals and organizations whose efforts drive our progress forward.

As we look ahead to 2025 and beyond, the SEG Foundation remains steadfast in broadening our base of support and ensuring our programs serve the diverse and evolving needs of the geophysical community. Our focus remains on advancing geophysics as a multidisciplinary science that not only supports SEG members but also demonstrates its value to humanity at large.

Philanthropy will continue to play a vital role in empowering SEG to lead and innovate, ensuring the next generation of geophysicists have the opportunities they need to thrive.

To the many loyal corporate supporters, dedicated donors, and volunteers—thank you for your unwavering commitment. Your contributions enable the education and development of thousands of members globally and the continued application of geophysics in service to society. Together, we can tackle the pressing challenges facing our world and position geophysics as a cornerstone of humanity's progress.



With gratitude,

A handwritten signature in black ink that reads "Rocco Detomo". The signature is fluid and cursive, written over a background of a topographic map with contour lines and blue water features.

— Dr. Rocco Detomo
Chairman, SEG Foundation

LEADERSHIP

Board of Directors

2024 Officers



*Rocky Detomo,
chair*



*Shipeng Fu,
vice chair*



*Martin Stupel,
treasurer*



*James C. White,
secretary*

2024 Directors



Alan R. Huffman



Alex Biholar



Alison Small



Andrea Lovatini



Bill Abriel



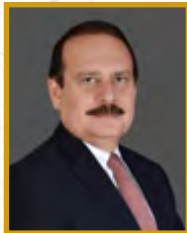
Chitty Chang



Daniel Kahn



*Maria Angela
Capello*



*Mohammed
Badri*



Neal Goins



*Raymond C.
Farrell*



Susan J. Webb



Tana Pool



Tony Lupo



*Arthur C. H.
Cheng*



John Eastwood



Ken Tubman



*Mike Forrest
(emeritus)*



*David Bartel
(emeritus)*

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FINANCIALS

2024 Financials

The SEG Foundation is a U.S. Internal Revenue Service 501(c)(3) charitable organization, which means donations to the Foundation are tax deductible in the United States. The Foundation financially supported 16 programs that benefited thousands of SEG members in 2024 by contributing more than US\$1.1 million to SEG from the combination of endowment spending and numerous pass-through donations from corporations and individuals. At the end of 2024, the Foundation's net assets were \$25.8 million, including an endowment of approximately \$18.8 million. The annual spending rate for endowed programs was 4%.

The SEG Foundation spent 2024 engaging donors and inquiring about their thoughts on the future of applied geophysics. As a result, three main themes surfaced including advancing the science of applied geophysics, supporting our current and future geophysicists, and growing our humanitarian impact (focusing on Geoscientists without Borders® [GWB]). From the collective input and direction from key, engaged, and influential SEG members and volunteers, a fundraising framework was synthesized that could help reshape the future of SEG.

Thank you to the hundreds of individuals who contribute their time, talent, and treasure to the SEG Foundation each year. You enable the education and continued development of thousands of members globally, as well as the application of geophysics in the service of humanity.

2024 FUNDRAISING RESULTS

- \$3,088,000

CORPORATE GIVING: \$409,600

- Chevron — Student Leadership Symposium and scholarships: \$200,000
- Shell — Honorary Lecture Series: \$100,000
- ExxonMobil — SEG EVOLVE Solutions student program: \$50,000
- BGP — Mandarin translation of SEG On Demand: \$50,000
- GPI — TA Social: \$3200
- SLB — TA Social: \$3200
- TGS — TA Social: \$3200

SCHOLARSHIPS: \$293,000

SOCIETY/SECTION GIVING: \$60,000

- AAPG Foundation — GWB: \$60,000

INDIVIDUAL GIVING: \$2,618,000

- **Major Gift Donors — (donors giving over \$10,000)**
 - » Unrestricted: \$2,172,000 from ten generous donors
 - » Program restricted - \$181,000 from six generous donors
- **Trustee Associate Giving**
 - » General Trustee Associate giving (including major donors) - \$283,000
 - » Program Restricted Trustee Associate giving (including major donors) - \$193,000
 - » Trustee Associate Matching
 - \$84,000 given by TA Matching Contributors
 - Nine new Trustee Associates in 2024
- **36 Sustaining TAs (more than \$2000/year)**

FUNDRAISING IN 2025 AND BEYOND

The SEG Foundation is focused on the future of applied geophysics. The Foundation aims to assist SEG in raising the funds necessary for a sustainable transformation. Fundraising efforts will be centered around the general ideas of applied technology and innovation (building partnerships for responsible sustainability), career development (making geophysicists future-ready), the next generation (fostering our future leaders), and humanitarian impact (sharing our positive social impact). The Foundation aspires to help geophysicists adapt and respond to humanity's increasingly diverse and urgent needs. Carefully stewarded and strategically applied by the Foundation, philanthropic investment will be vital to our profession's dynamic future, yielding exceptional educational, scientific, economic, and humanitarian benefits in service to our world.

Honoring a Legacy: *The Impact of GeoLegacy Giving*

The SEG Foundation's GeoLegacy Giving Society stands as a beacon of dedication and generosity, ensuring the long-term advancement of geophysics through planned giving. This special society is composed of individuals who recognize the importance of securing the future of geoscience by leaving a lasting contribution that will benefit generations of students, researchers, and professionals in the field.



In 2024, the SEG Foundation received an extraordinary gift from Decker Dawson, a pioneering geophysicist whose impact on the industry and SEG has been profound. His generosity exemplifies the true spirit of the GeoLegacy Giving Society, allowing his legacy to live on through the very programs that fuel innovation, education, and humanitarian efforts.

The GeoLegacy Giving Society provides donors with the opportunity to make a meaningful, lasting difference by including the SEG Foundation in their estate plans. Their foresight and generosity ensure that students, educators, and geophysical programs worldwide continue to thrive. It is through these gifts that SEG remains at the forefront of scientific advancement, professional development, and humanitarian impact.

We extend our deepest gratitude to Decker Dawson and all members of the GeoLegacy Giving Society for their unwavering commitment to the future of geophysics. Their contributions serve as an inspiration, reminding us that true leadership is measured not only in professional achievements but in the legacies, we leave behind.

To learn more about how you can leave a lasting impact through planned giving, visit plannedgiving.seg.org.

AWARDS

Dick Baile

Exemplary Service Award

The Dick Baile Exemplary Service Award was established by the SEG Foundation to honor individuals who have made significant contributions to the Foundation through their time, actions, talents, and dedication. The honoree selected should serve as a role model for compassion, service, and philanthropy, and have an extended record of striving to make the world a better place. Honorees shall be recognized for their exemplary contributions through personal service, success in fundraising, and/or personal monetary donations to the Foundation. Recipients shall consistently demonstrate results-oriented performance, motivate, and inspire others through their words and actions, promote inclusivity, and hold themselves and others to the highest standards of service to the Foundation. It is further desired that recipients shall have a record of service with the Foundation that spans more than a decade.

Citation for Arthur Cheng

by David C. Bartel

With concurrence of the SEG Foundation Board of Directors, Arthur Cheng is awarded the SEG Foundation's highest honor, the Dick Baile Exemplary Service Award. Arthur has honorably served the SEG Foundation for many years, first as a director from 2012 to 2022, including Vice Chair for two years, until his election as SEG President-Elect. Arthur continues to serve on the Foundation Board of Directors as part of the interaction between the SEG and SEG Foundation. Arthur has also supported Foundation-funded programs with his time, talent, and philanthropy. Arthur has served as a mentor for SEG EVOLVE and has provided significant funding for Geoscientists *without* Borders® (GWB), SEG EVOLVE, and the Distinguished Lecture program. This is in addition to the many other contributions Arthur has made to the SEG (e.g., GEOPHYSICS Editor-in-Chief, Research Committee, etc.). I also appreciate the time Arthur spends in meetings no matter where in the world he happens to be. First thing in the morning for us in the US was late night for Arthur in either Singapore or Hong Kong. I believe Arthur has exemplified the ideals of the Dick Baile Exemplary Service Award for his compassion, service, and philanthropy; and deserves to be thus honored.



AWARDS

SEG Foundation Directors' Award

The **SEG Foundation Directors' Award** is a prestigious honor bestowed upon a donor who has demonstrated exceptional commitment and service to the SEG Foundation. This award recognizes individuals who have significantly expanded the goals and impact of the Foundation's funding efforts by leveraging their network and influence. It recognizes not only financial contributions but also the power of networking and advocacy in advancing geosciences, particularly geophysics, and promoting positive change. Recipients of this award have stood out as leaders, performed unique and impactful actions for the Foundation, or have gone above and beyond in their support.



Citation for David Bartel

by *Dr. Rocco Detomo*

In recognition of exceptional service to the SEG Foundation, and with the concurrence of the SEG Foundation Board of Directors, David Bartel is awarded the SEG Foundation's first-ever **Directors' Award**. David has actively contributed to the Foundation's mission through his unwavering dedication. Whether through volunteer work, strategic guidance, or motivational activities, he has positively influenced the Foundation's programs, initiatives, and overall effectiveness for many years by volunteering on committees, engaging Corporate donors, and serving on the SEG Foundation Board of Directors, including as the Board's Chairperson. David continues to serve as a valuable contributor to the Foundation Board of Directors as a regular advisor to the Foundation's Executive Committee. David supports Foundation-funded programs with his time, talent, and philanthropy. Furthermore, the impact of David's commitment is evident in tangible outcomes in the areas of increased funding, expanded scholarship opportunities, new Trustee Associates, and continuing corporate donations. David has served as a mentor for other Foundation Board members and has been instrumental in the creation and support of the SEG/Chevron Student Leadership Symposium, one of SEG's most valued and popular student programs. I also appreciate that the first time I met David was when we worked together on SEG's Technical Committee for an Annual Meeting in New Orleans nearly 30 years ago. I believe that David has exemplified the ideal of the **SEG Foundation's Directors' Award** through his service, leadership, and philanthropy, and he deserves this honor.

The recipient will have actively contributed to the SEG Foundation's mission through volunteer work, strategic guidance, and motivational activities with stakeholders. Their dedication will have positively influenced the Foundation's programs, initiatives, and overall effectiveness. The awardee will have exceeded expectations in engaging their professional and personal network in supporting the SEG Foundation and will have effectively communicated the Foundation's mission and encouraged others to contribute, thereby broadening the reach of SEG's philanthropic efforts. The recipient's efforts will have led to tangible outcomes, including increased funding, support for scholarships, new Trustee Associates, and access to Corporate donations.

AWARDS

Sally Zinke

Individual Impact Award

The **SEG Foundation's Sally Zinke Individual Impact Award** is the highest individual honor granted to a member who has made a remarkable and lasting contribution to the SEG Foundation. This esteemed award recognizes those who have demonstrated exceptional dedication, innovative efforts, and impactful initiatives that have significantly advanced the mission and goals of the Foundation. It celebrates the power of individual influence in promoting geosciences, particularly geophysics, and driving positive change within the community.



The award is named the **SEG Foundation's Sally Zinke Individual Impact Award** in honor of Sally Zinke, an inspiring leader in SEG and a friend of the Foundation. Her forward-facing and strategic leadership shows the impact an individual can have on the broader SEG community. As the first female president of SEG, she broke barriers and set a precedent for future women leaders in geophysics. Her visionary leadership, dedication, and groundbreaking contributions, particularly in implementing strategic planning, have significantly advanced the mission and goals of the SEG Foundation, inspiring many within the geoscience community to follow her example and support the Foundation's initiatives.

The recipient will have made a notable and innovative contribution to the SEG Foundation's mission through their unique contributions, expertise, or initiatives. These efforts will have resulted in substantial, tangible, and positive changes in the Foundation's programs and overall

effectiveness. The awardee will have demonstrated outstanding leadership and advocacy in promoting the SEG Foundation's mission and values, effectively engaging with various stakeholders to inspire support and contributions to the Foundation's objectives. The recipient's initiatives have led to measurable and enduring outcomes, such as enhanced program effectiveness, increased funding and awareness, new partnerships, or expanded outreach. Their contributions have created a lasting impact on the SEG Foundation and the geoscience community at large.

Citation for Bob Merrill

by Sarah Hewitt & Maria Angela Capello

Bob Merrill will be honored at IMAGE 2024 with the inaugural **SEG Foundation's Sally Zinke Individual Impact Award**, recognizing his remarkable and lasting contributions. Bob's unwavering alignment with the Foundation's mission and his profound understanding of the humanitarian applications of geosciences have significantly advanced our initiatives. His proactive approach to seeking fundraising opportunities, providing insightful feedback for program improvements, and driving strategic advancement has been invaluable. Bob's dedication shines through in his meticulous work on time-sensitive and technical grant applications, as well as his keen awareness of philanthropic trends in Water, Sanitation and Hygiene (WASH), Disaster Risk Reduction (DRR), and other GWB focus areas. As Chair of Geoscientists *without Borders*® (GWB) during the pandemic, he led the program with exceptional agility, expanding its global reach and fostering locally led initiatives. Bob's exemplary leadership and commitment have left and continue to leave indelible marks on the SEG Foundation, which we are all proud of.

AWARDS

Thomas A. and Evonne Smith Corporate Impact Award

The **SEG Foundation's Thomas A. and Evonne Smith Corporate Impact Award** is a prestigious honor awarded to a corporation that has demonstrated exceptional commitment and made significant contributions to the SEG Foundation for the benefit of the mission of the SEG. This esteemed award recognizes companies that have shown outstanding dedication to advancing geosciences, particularly geophysics, through innovative initiatives, strategic partnerships, and impactful contributions. It celebrates the crucial role of corporate involvement in promoting positive change and supporting the mission of the SEG Foundation.

The award is named the **Thomas A. and Evonne Smith Corporate Impact Award** in honor of Tom and Evonne Smith, an inspirational couple whose significant impact on the SEG Foundation and SEG programs was especially evident during critical times and key moments of need. Tom has been an innovator in geophysical software several times over, creating new companies to help geophysicists better understand their data and enhance collaboration between geologists and geophysicists. Tom has also significantly supported the Foundation with substantial gifts and leadership roles over the years. Tom and Evonne's unwavering dedication and exceptional contributions have left a long-standing legacy, embodying the spirit of entrepreneurship, innovation, and commitment that this award celebrates.

The recipient corporation will have made notable and innovative contributions to the SEG Foundation's mission through its unique resources, expertise, and initiatives. Their efforts will have resulted in substantial and positive changes in the Foundation's programs, initiatives, and overall effectiveness. The awardee will have shown outstanding leadership and advocacy in promoting the SEG Foundation's mission and values and will have effectively engaged with various stakeholders, inspiring other companies, and organizations to support and contribute to the Foundation's objectives. The corporation's initiatives will have led to measurable and enduring outcomes, including enhanced program effectiveness, increased funding, new partnerships, growth in SEG membership through company promotion, and expanded outreach.

Citation for Baker Hughes & Baker Hughes Foundation

by Sarah Hewitt

Baker Hughes & its Foundation have been awarded the prestigious **SEG Foundation's Thomas A. and Evonne Smith Corporate Impact Award**. This esteemed recognition is a testament to Baker Hughes' exceptional commitment and significant contributions to advancing the mission of the SEG Foundation. Notably, Baker Hughes and the Baker Hughes Foundation have been at the forefront of industry innovation, playing a pivotal role in supporting the Geoscientists *without* Borders® (GWB) program and actively engaging in the SEG Global Sustainability Lecture series. Additionally, Baker Hughes has demonstrated its dedication to advancing geoscience education through its support of SEG On Demand, which provides valuable resources and learning opportunities for the geoscience community. Their innovative initiatives and strategic partnerships have driven substantial positive changes within the SEG Foundation's programs and significantly impacted the broader geoscience community. By leveraging their unique resources and expertise, the Baker Hughes Foundation has demonstrated outstanding leadership and advocacy, inspiring other organizations to support the SEG Foundation's objectives and contributing to measurable and enduring outcomes that enhance program effectiveness and expand outreach.

Baker Hughes 
Foundation

Global Humanitarian Impact through Applied Geoscience

The Geoscientists without Borders® (GWB) program continues to be a transformative force, connecting geoscientific expertise with humanitarian needs across the globe. In 2024, GWB expanded its reach, initiated new projects, and celebrated several completions — each exemplifying how geophysics can improve lives by addressing issues related to clean water, seismic resilience, habitat management, and education.

2024 Project Highlights and Achievements

Groundwater Solutions for Refugees in Côte d'Ivoire:

Led by the University of Man, this multidisciplinary project is delivering two high-yield potable water boreholes in the Tchologo region. Benefitting both local communities and refugees, the initiative also trains more than 100 students, promotes environmental sustainability, and empowers community-led water management.

Earthquake Early Warning System in Nepal: The “NepalEEW: Testing the Feasibility of an Earthquake Early Warning System in Nepal” project concluded successfully in December 2024. A network of seismic stations was deployed, proving the feasibility of a regional early warning system using Internet of Things (IoT) and cloud-based technologies. This work, in collaboration with NSET-Nepal, is now influencing national strategies for earthquake resilience.

Water Contamination Mitigation in Indonesia: The Aquinas project addresses groundwater pollution from landfill sites in Cipayung, East Jakarta. Utilizing geophysical surveys (Electrical resistivity tomography [ERT], Ground Penetrating Radar [GPR], Self Potential [SP]) and community outreach, the team is locating contamination pathways and promoting sustainable aquifer use. Educational workshops for local students further broaden the project's long-term impact.

Addressing Water Stress and Characterizing Groundwater Recharge in Sadhana Forest, India: More than 60% of India faces high to extremely high-water stress, with scarce and contaminated surface water supplies. ETH Zurich's Sadhana Forest project advanced groundwater recharge through reforestation and monitoring infrastructure. By integrating hydrogeological models and community training, the project promotes long-term water security and resilience to droughts.

Hydrogeophysics in Senegal: Partnering with Aarhus University and the British Geological Survey, this UCAD-led project used electromagnetic methods (EM) and resistivity surveys to map aquifers. Educational outreach and dual training programs were central to the goal of promoting equitable geoscience education and sustainable resource use.

Earthquake & Tsunami Risk Reduction in Indonesia:

In eastern Indonesia, the multi-channel analysis of surface waves (MASW)-based seismic risk project mapped Vs30 profiles and horizontal-to-vertical spectral ratio (HVSr) data across six islands, producing zoning recommendations and revealing major hazard zones. Discoveries include evidence of tsunami deposits, new volcanic collapse threats, and legacy seismic events, all of which are contributing to long-term disaster preparedness.

Community-Led Groundwater Mapping in Peru:

A project in northern Peru equipped communities with low-cost geophysical tools to identify groundwater near degraded forest regions. While some aquifers were too saline for drinking, new zones suitable for irrigation were identified, offering economic uplift and educational value.

Program Development and Recognition

- Active Projects: 12 ongoing across water, disaster risk reduction, archaeology, and habitat management.
- Newly Funded Projects in 2024: GWB's Technical Review Sub-Committee (TRSC) evaluated projects from 2024 Q1 and Q2 projects for both the Houston area and global projects. Out of the 43 global projects, the TRSC selected six projects to submit their Phase II full proposals by June 30. During the Phase II Consensus meeting in August 2024, the TRSC selected three projects for funding and had US\$90,000.00 for awarding global projects. These projects are:
 - » **Uganda:** Well completion and repair by IsraAID (US\$12,000)
 - » **Ghana:** Groundwater exploration by Pumping is Life (US\$32,500)
 - » **Vietnam:** Landslide risk mitigation by PetroVietnam University (US\$45,500)

Three projects successfully ended in 2024: Nepal (EEWS), Indonesia (MASW/disaster mitigation), and Peru (water).

GEOSCIENTISTS WITHOUT BORDERS

Outreach, Education and Engagement

2024-2025 SEG Global Sustainability Lecture Series:

Ron Harris, professor of geological sciences at Brigham Young University, delivered virtual lectures on tsunami preparedness. Titled “Geological Hazards Risk Assessment and Reduction: A Case Study from Southeast Asia,” the lecture series, sponsored by the Baker Hughes Foundation, also touched on WAVES, a multidisciplinary consortium dedicated to bridging the gap between scientific understanding of geohazards and practical preparedness for communities at risk. In-person lectures are planned for 2025 in Southeast Asia.

GWB at IMAGE 2024: GWB Project Investigators (PIs) pivoted to have current projects submit their abstracts in relevant sessions and poster presentations relating to the science applied during the projects. Two posters were accepted from the Guatemala volcano and Peru water projects as part of the technical program. GWB also conducted a field trip, the Dignity in Depth Project, in Houston focused on archaeology and geophysical mapping of three historic African American cemeteries in the downtown area.

Podcast & Presentations: SEG’s *Seismic Soundoff* highlighted Ron Harris’ tsunami work, and GWB participants presented at the AGU Fall Meeting, SEG/EAGE Smart Cities Conference, and more.

Future Outlook

Looking to 2025, GWB aims to:

- Launch a new round of project funding (Q1–Q2) with targeted support for both global and U.S.-based projects.
- Expand strategic partnerships and funding, particularly from industry and philanthropic donors.
- Continue driving awareness through high-visibility sessions at IMAGE 2025 and educational outreach programs.

Geoscientists without Borders® (GWB)

The Geoscientists without Borders® (GWB) Program exemplifies SEG’s dedication to using geoscience for humanitarian good by providing life-changing solutions and fostering global collaboration. Serving as a catalyst, GWB unites capable geoscientists with communities to address critical issues such as water shortages, earthquakes, tsunamis, and other hazards.

The program funds and assists geoscientists in working with multidisciplinary and community-based partners through robust support and partnerships, enabling data collection, processing, and interpretation to deliver sustainable humanitarian benefits. Since its inception, GWB has supported more than 64 projects across 34 countries, improving lives through science, training, and community collaboration.

For more information, visit seg.org/gwb.

INDIVIDUAL AND CORPORATE SUPPORTERS



Baker Hughes 
Foundation

Schlumberger

Founding Supporter

KiwiEnergy

Fred and Kathi Hilterman
Ruben Martinez
James and Stella Robertson

ENDOWMENTS

- Debra and Mark Gregg/KiwiEnergy LTD. Endowment (founding supporter)
- Michael C. Forrest Honorary Endowed Fund
- GWB Support Fund including James & Arleene Payne, Martin & AryIn Shields, and other individual endowment donors.

Distinguished Lecture series: Pioneering the future of geophysics

The Society of Exploration Geophysicists (SEG) Distinguished Lecturer program is a cornerstone of our mission to advance the field of geophysics. This prestigious program honors individuals whose groundbreaking work and thought leadership have significantly impacted the global geophysical community. In 2024, SEG was proud to welcome Christof Stork and Ge Jin to its ranks of distinguished lecturers.



2024 Q1/Q2 Distinguished Lecturer Christof Stork, “How Does the Thin Near Surface of the Earth Produce up to 100 Times More Noise on Land Seismic Data than on Marine Data?”

Christof Stork began his career as a theoretical academic with a PhD in geophysics from Caltech and a post-doctorate degree from Stanford. His early work revolved around reflection tomography, prestack depth migration (PSDM), wave equation migration (WEM), reverse time migration (RTM), and full waveform inversion (FWI) before they became mainstream technologies. Stork is involved with five startup companies, the latest of which is a land seismic processing company.

In his lecture, Stork delved into the complex and often misunderstood world of land seismic noise — a persistent challenge that sets land acquisition apart from its marine counterpart. Unlike marine environments, where noise is generally more predictable and manageable, land seismic data are frequently degraded by irregular, high-amplitude noise originating from the shallow subsurface. These near-surface layers, often within the top 30 meters and characterized by ultra-slow velocities, introduce a complexity that simple scattering or surface wave models cannot adequately explain.

Through dynamic wave propagation animations and synthetic data from realistic models, his lectures offered a compelling visual and physical intuition for how this noise is generated and how it distorts recorded signals.

A key theme was the importance of rethinking conventional assumptions in land seismic acquisition and processing, particularly the limitations of traditional statics corrections and statistical noise removal methods.

The lectures also proposed several field-tested conclusions: micro-near surface effects play a crucial role; much of the signal energy remains hidden beneath the noise; and coherent noise removal strategies often outperform brute-force statistical methods. In his lectures, Stork also highlighted how changing surface moisture can produce significant 4D noise, particularly relevant for carbon capture and storage (CCUS) monitoring efforts.

Overall, Stork’s lecture series emphasized that a deeper understanding of the physics behind land seismic noise — combined with area-specific modeling and testing — can unlock more effective acquisition designs and processing workflows, ultimately leading to clearer images and more reliable interpretation.

Fast Facts:

- May 23, 2024: 328 virtual registrations, 173 unique attendees
- June 25, 2024: 207 virtual registrations, 59 unique attendees



2024 Q3/Q4 SEG/AAPG Distinguished Lecturer Ge Jin, “Distributed Fiber-Optic Sensing Applications for Oil and Gas: A Non-seismic Version for Geophysicists”

Ge Jin is an associate professor of Geophysics and co-director of the Reservoir Characterization Project at Colorado School of Mines (Mines). He is interested in distributed fiber-optic sensing (DFOS) applications in geophysics, seismic imaging, and machine learning applications. Jin initiated and developed many important distributed fiber-optic sensing (DFOS) applications for oil and gas applications, including cross-well strain monitoring, DAS-based microseismic imaging and

PROFESSIONAL DEVELOPMENT

reservoir characterization, and DFOS-based production logging. Before joining Mines, he worked as a research geophysicist at ConocoPhillips for five years. Jin obtained his PhD in Geophysics from Columbia University in New York and a dual BS in Geophysics and Computer Science from Peking University.

In his lecture, Jin spotlighted the expanding role of DFOS beyond its traditional seismic applications, presenting a compelling case for geophysicists to engage with this versatile technology in new, non-seismic domains. While DFOS is widely known for seismic uses such as vertical seismic profiling (VSP) and microseismic monitoring, Jin emphasized its multiphysics capabilities — simultaneously capturing distributed temperature, strain, and vibration data along a wellbore using a single fiber-optic cable.

These capabilities unlock many applications across the entire oil and gas well lifecycle—from completion and production to eventual abandonment. Jin showcased field-based case studies demonstrating the utility of distributed strain sensing in hydraulic fracture monitoring and distributed temperature sensing for well integrity assessment. These examples underscore DFOS's potential to support more efficient hydrocarbon recovery and safer subsurface operations, including its growing relevance in carbon dioxide sequestration efforts.

The lecture also highlighted the critical need for advanced signal processing and visualization to handle DFOS's massive data volumes, positioning geophysicists as key contributors in interdisciplinary teams. Jin's message was clear: non-seismic DFOS applications represent a frontier of innovation with substantial technical and commercial impact, ripe for geophysical exploration.

Fast Facts:

- **October 4, 2024:** 302 virtual registrations; 152 unique attendees
- **October 17, 2024:** 222 virtual registrations; 75 unique attendees (hosted by AAPG)
- **October 23, 2024:** 227 virtual registrations; 111 unique attendees

Impact of the SEG Distinguished Lecturer Series

The SEG Distinguished Lecturer series not only celebrates individual excellence but also plays a crucial role in advancing the field of geophysics. These lectures inspire new ideas, foster collaboration, and promote cutting-edge research that benefits society as a whole. The support from donors ensures that programs like this continue to thrive, nurturing the next generation of geophysicists and pushing the boundaries of science.

Christof Stork, the 2024 Q1/Q2 Distinguished Lecturer, and Ge Jin, the 2024 Q3/Q4 SEG/AAPG Distinguished Lecturer, embody the vision and innovation the SEG Foundation proudly supports. Their work highlights the importance of continuous learning and the application of new technologies to solve complex geophysical challenges

SUPPORTERS

SEG and Baker Hughes Foundation

Honorary Lecture: Showcasing global expertise in geophysics

The Society of Exploration Geophysicists (SEG) Honorary Lecture series is an esteemed program that features prominent geophysicists worldwide. These experts share their cutting-edge research and insights, contributing to the global advancement of geophysical knowledge. The lectures cover diverse topics, from seismic data analysis to environmental geophysics, providing attendees with valuable learning opportunities.

The 2024 Honorary Lectures consisted of virtual and in-person events. The seven virtual presentations drew 2,566 unique registrations with 892 unique attendees, and the one in-person event drew 30 attendees.

2024 Honorary Lecturers



Pacific South Honorary Lecturer Tim Dean, “*Seismic Acquisition and the Energy Transition*”

Dean’s lecture focused on seismic acquisition’s evolving role in global energy transition. As the world shifts from fossil fuels to renewable and sustainable energy sources, the seismic exploration industry — historically rooted in hydrocarbon discovery — is transforming. Dean explored how this shift creates new opportunities for seismic methods in emerging fields such as geothermal energy and mineral exploration.

Drawing on a diverse and accomplished career spanning academia, research, and industry, Dean brought a unique perspective to the changing landscape of geophysics. He highlighted how land-acquisition advancements, particularly vibroseis source technology and survey design, enable more precise and efficient data collection in environmentally and logistically challenging settings. His lecture emphasized the growing relevance of distributed fiber-optic sensing (DFOS) and its potential to revolutionize data acquisition and monitoring across a range of subsurface applications.

Dean underscored the seismic method’s adaptability in addressing modern energy challenges by examining case

studies and emerging technologies. The lecture provided a forward-looking assessment of how geophysicists can repurpose established techniques for new domains, positioning the discipline at the forefront of the transition to cleaner, more sustainable energy solutions.

Fast Facts:

- May 8, 2024: 30 in-person attendees
- May 21, 2024: 125 virtual registrations; 29 unique attendees
- June 28, 2024: 145 virtual registrations; 64 unique attendees



Latin America Honorary Lecturer Eduardo Corti, “*Unconventional Borehole Seismic Techniques*”

Corti’s lecture, which carried over from 2023, examined the evolving role of unconventional borehole seismic techniques in enhancing subsurface imaging and reservoir characterization. Building on a distinguished geophysical research and consulting career, he introduced advanced methods beyond traditional check-shot and vertical seismic profiles.

He highlighted Walk-Away VSPs for AVO calibration and Walk-Around VSPs for detecting Horizontal Transverse Isotropy (HTI), which place sensors near specific geological horizons to improve seismic interpretation and reservoir understanding. Additional techniques included Borehole Acoustic Reflection Surveys (BARS) for imaging near-wellbore features and X-Well Surveys, which use seismic energy transmitted between wells to map inter-well structures.

Corti also discussed microseismic monitoring for hydraulic fracturing, during which downhole sensors detect small seismic events to track fracture growth. Together, these techniques showcase how borehole seismic methods are expanding to meet the demands of modern exploration and production.

Fast Facts:

- March 21, 2024: 152 virtual registrations; 51 unique attendees
- May 16, 2024: 289 virtual registrations; 107 unique attendees

PROFESSIONAL DEVELOPMENT



Middle East Honorary Lecturer Umair bin Waheed, “*Scientific machine learning in geophysical exploration and monitoring*”

Waheed’s lecture, which carried over into 2024, focused on the impact of artificial intelligence (AI), particularly

machine learning (ML), on science and engineering. Scientific machine learning (SciML) combines traditional scientific computing with modern ML to enhance data-driven learning, especially in cases where conventional ML struggles with limited or noisy data or lacks interpretability and robustness.

SciML integrates physical models based on scientific principles with ML, allowing it to work with smaller datasets while ensuring outcomes align with established knowledge. This approach has found applications in fields such as geophysics, climatology, and biology. The lecture explored advancements in geophysical exploration using methods like physics-informed neural networks (PINNs) and Deep Operator Networks (DeepONets) as well as the challenges in mainstreaming these techniques.

Fast Facts:

- 15 January 15, 2024: 528 virtual registrations; 153 unique attendees



Global Sustainability Lecturer Ron Harris, “*Geological Hazards Risk Assessment and Reduction: A Case Study from Southeast Asia*”

Harris delivered a powerful and timely lecture on geohazard risk assessment and community-based disaster

preparedness in some of the world’s most vulnerable regions. His work centers on densely populated areas near active plate boundaries, with a particular emphasis on Southeast Asia, which accounts for 85% of global natural hazard casualties within just 12% of the Earth’s landmass.

The devastating 2004 Indian Ocean tsunami — which claimed approximately 250,000 lives — served as a turning point in his career. He recognized that scientific assessment alone does not save lives unless paired with effective risk communication and proactive mitigation strategies. In response, he established WAVES, a global, multidisciplinary consortium that unites experts in science, education, engineering, art, and other fields to bridge the gap between geoscience and community resilience.

WAVES engages directly with at-risk populations, implementing grassroots strategies that empower local communities to take life-saving action. One of the initiative’s most effective tools is the “20-20-20” principle:

if an earthquake lasts more than 20 seconds, individuals in coastal areas have 20 minutes to reach an elevation of at least 20 meters. This simple, memorable guideline distills complex scientific modeling into an actionable public safety message. It has been widely adopted across Indonesia, appearing on evacuation signage, t-shirts, scarves, billboards, and educational tools such as games and drills.

Harris’ lecture highlighted the profound impact of collaborative, community-centered approaches to geohazard mitigation, demonstrating how science, when communicated effectively, can directly translate into lives saved.

Fast Facts:

- September 25, 2024: 80 virtual registrations; 36 unique attendees
- December 13, 2024: 163 virtual registrations; 38 unique attendees



Near Surface Lecturer Kamini Singha, “*Geophysics for Discovering New Horizons in Critical Zone Science*”

In her Near Surface Lecture, Singha explored the transformative role of

geophysics in advancing critical zone (CZ) science — the dynamic region of Earth that spans from treetops to the base of groundwater. This zone is essential for sustaining ecosystems, providing clean water, and supporting agriculture, yet it also is highly vulnerable to climate change and human activity. Singha emphasized the challenge of studying subsurface regions, which are difficult to observe directly but hold the key to understanding how water moves and is stored beneath the surface.

Geophysics, she explained, acts as a “macroscope,” enabling scientists to visualize and quantify hidden processes within the CZ. Through non-invasive imaging techniques, researchers can investigate how trees access groundwater, how water infiltrates and flows in three dimensions, and how chemical reactions and weathering influence broader CZ behavior. By integrating geophysical data with hydrological and ecological models, scientists can better predict how the critical zone will respond to environmental stressors. Singha’s lecture underscored the importance of geophysics in answering foundational questions about the Earth’s subsurface and demonstrated its power to uncover new insights into a complex and vital system.

Fast Facts:

- September 25, 2024: 282 virtual registrations; 118 unique attendees
- November 19, 2024: 221 virtual registrations; 77 unique attendees

PROFESSIONAL DEVELOPMENT



North American Lecturer Jean-Paul Van Gestel, “*Time Lapse Seismic on the Atlantis Field: How the Last Ten Years Shape the Next Ten Years*”

In his lecture, Van Gestel highlighted a decade of innovation in time-lapse seismic monitoring at the Atlantis Field in the deepwater Gulf of Mexico — once considered an immense technical challenge due to complex salt bodies. Over the past 10 years, substantial advancements have been made across seismic acquisition, processing, and data integration, revolutionizing the field’s approach to subsurface imaging.

Van Gestel detailed how utilizing ocean bottom node (OBN) surveys has significantly enhanced data repeatability and coverage, while breakthroughs in full waveform inversion (FWI) have greatly improved velocity model accuracy and subsalt imaging. On the analysis side, integrating geomechanics into seismic simulation and employing assisted history matching have strengthened the role of time-lapse seismic in reservoir modeling. These developments have enabled cleaner, more reliable difference imaging, allowing operators to track water movement, assess reservoir connectivity, and optimize infill well placement.

Using Atlantis Field as a case study, Van Gestel illustrated how these improvements have directly contributed to more efficient reservoir management and higher recovery rates. He also looked ahead, discussing emerging technologies such as distributed acoustic sensing, time-lapse FWI, and autonomous acquisition systems that promise to shape the next decade of deepwater seismic innovation.

Van Gestel will conduct in-person lectures in 2025.

Fast Facts:

- October 15, 2024: 133 virtual registrations; 73 unique attendees
- November 14, 2024: 211 virtual registrations; 77 unique attendees



Latin American Lecturer Maria Angela Capello, “*Rocking Sustainability: Geophysics’ Role in a Greener, Prosperous, and Socially Conscious Latin America*”

Capello’s lecture is slated for 2025 (in-person and virtual).



Middle East and Africa Lecturer Cyril Boateng, “*Geophysics for Sustainable Futures: Unlocking Opportunities in Africa and the Middle East*”

In his lecture, Boateng emphasized the pivotal role of geophysics in driving sustainable development and cultural preservation across two of the world’s most dynamic and challenged regions. With growing global attention on sustainability and responsible resource management, Boateng illustrated how geophysical methods can provide essential insights into environmental resilience and historical understanding.

The lecture centered on two compelling case studies. The first explored the use of geophysics in groundwater exploration—an increasingly critical application in arid regions facing water scarcity. By identifying and managing subsurface water resources more effectively, geophysics supports long-term water security and sustainable livelihoods. The second case study focused on archaeological geophysics, showcasing how non-invasive technologies can uncover and protect culturally significant sites, particularly those tied to the legacy of slavery and other underrepresented historical narratives.

Boateng also highlighted the expanding opportunities for young geophysicists in Africa and the Middle East, encouraging them to engage in work that bridges scientific innovation with societal impact. His lecture ultimately framed geophysics as a key enabler of sustainable futures, calling on the next generation to use geoscience to solve regional challenges and preserve cultural heritage.

Fast Facts:

- November 15, 2024: 106 virtual registrations; 45 unique attendees
- December 20, 2024: 131 virtual registrations; 24 unique attendees

Impact and Engagement

SEG’s Honorary Lecture series fosters global engagement within the geophysical community. The series helps disseminate new research findings and best practices by providing access to leading experts. Attendees benefit from the opportunity to learn about the latest geophysics developments and apply this knowledge to their own work.

Honorary Lecture Program

Each year, Honorary Lecturers transfer knowledge to six major regions of the globe through a mix of live tours and virtual lectures. In addition, a Near Surface Global Lecturer delivers two virtual presentations attended by a global audience and recorded for online viewing. The regional focus of the lecture programs helps strengthen the services SEG provides to an expanding global membership. Lectures may be given in English or a language appropriate to the region, and all are recorded for online viewing.

CORPORATE SUPPORTER



Global Sustainability Lecturer

Advancing Resilience Through Applied Geoscience

The SEG Global Sustainability Lecturer program, supported by the Baker Hughes Foundation, expands educational opportunities by addressing urgent global challenges through applied geosciences. The lecture series highlights connections to the United Nations Sustainable Development Goals (UNSDGs) and is designed for both technical and non-technical audiences worldwide.

For 2024-2025, Dr. Ron Harris (professor of geological sciences, Brigham Young University, Utah, USA), an expert in geological hazard risk assessment and disaster risk reduction, traveled the globe for the lecture series. His presentations emphasize how geoscience research can translate into practical, life-saving strategies for vulnerable communities.

Spotlight on Disaster Risk Reduction

The opening lecture, “Geological Hazards Risk Assessment and Reduction: A Case Study from Southeast Asia”, explored how densely populated regions near plate boundaries, particularly Southeast Asia, face disproportionate risks from natural hazards.

Key highlights included:

- Lessons learned from the 2004 Indian Ocean tsunami.
- Interdisciplinary collaboration across STEAM fields to build resilience.
- The innovative 20-20-20 principle: If the ground shakes for more than 20 seconds, residents have 20 minutes to reach at least 20 meters in elevation.

Global Reach and Accessibility

The Global Sustainability Lecturer program is designed to reach audiences wherever they are, ensuring knowledge-sharing across borders and time zones. For the 2024–2025 tour:

- Two global webinars were scheduled across different time zones to allow participation from Asia-Pacific, Africa, Europe, and the Americas.
- One in-person lecture tour will take place in Southeast Asia, allowing for direct engagement with universities, local policymakers, and community leaders.
- The first webinar (September 2024) attracted 80+ participants from Africa, Asia, Latin America, and Europe, representing a diverse mix of students, faculty, researchers, and non-technical community members.
- Attendees included not only geoscientists but also professionals from disaster management agencies, NGOs, and education sectors, expanding the impact beyond the traditional geoscience community.
- The second webinar and the in-person lecture are scheduled for early 2025, with outreach efforts focused on building even broader participation and recording sessions for ongoing educational use.

Lasting Community Impact

The 20-20-20 principle has been widely adopted across Indonesia, appearing on signage, t-shirts, billboards, and even children’s games to promote preparedness. Tsunami evacuation drills guided by this principle are now routine, showing how applied geosciences can directly save lives.

Looking Ahead

Through this program, SEG demonstrates how geoscience knowledge extends beyond research to serve communities at risk, embodying the Foundation’s commitment to global sustainability, education, and humanitarian impact.

SUPPORTED BY



“

Ron did an excellent job detailing the need for such initiatives in one of the most seismically active regions of the world and how applied geosciences can help influence local policy and formulate disaster risk reduction strategies. The 20-20-20 rule is a lifesaving strategy that everyone, including school children, can adopt to prepare for a future event.

— Virtual Lecture Attendee, September 2024

”

PROFESSIONAL DEVELOPMENT

Distinguished Instructor Short Course (DISC): Expert-Led Courses for Advancing Geophysical Expertise

The Society of Exploration Geophysicists (SEG) Distinguished Instructor Short Course (DISC) offers intensive training on specialized topics in geophysics. Led by distinguished instructors who are experts in their fields, these courses provide participants with in-depth knowledge and practical skills essential for professional growth.

Key Sessions and Attendance:

- August 25, 2024: IMAGE '24, Houston, TX: 32+ attendees
- 2025: Future dates scheduled



2024-2025 DISC: Mrinal Sen

Topic: “Physics and Data Driven Seismic Data Analysis: A Narrative of Two Approaches”

The goal of Mrinal Sen’s DISC is to take a step-by-step approach to explain the physics, signal processing, and machine learning-based approaches in seismic data analysis. The focus is not on the theoretical principles but only on the applicability and usefulness of the approaches.

Mrinal is a professor of Geophysics and holder of the Morgan Davis Centennial Chair in Petroleum Geology at the Department of Earth and Planetary Sciences and the Institute for Geophysics at the University of Texas at Austin. During 2013 and 2014, Mrinal served as the director of the National Geophysical Research Institute, Hyderabad, India. He received his M.Sc degree from IIT Dhanbad and PhD from the University of Hawaii at Manoa, USA.

Mrinal is recognized internationally for his work on theoretical and computational seismology and geophysical inversion. He has authored a textbook that was nominated for an award, co-authored another widely used textbook that is now in its second edition at Cambridge University Press, taught multiple short courses including one on full waveform inversion (FWI) for SEG, and authored or co-authored 20 book chapters and more than 200 journal articles. Mrinal has received many awards, including Honorary membership in SEG “for extraordinary contributions as a geophysicist, educator and author;” the Joseph C. Walter Award for Research Excellence; the Distinguished Educator Award at the University of Texas; the DE centennial Gold Medal of the Indian Geophysical Union; and the Distinguished Alumnus Award from IIT(ISM) and the University of Hawaii at Manoa. He also is the recipient of SEG’s 2018 Virgil Kauffman Gold Medal for his outstanding contribution in significantly advancing geophysical exploration.



2023–2024 DISC: Philip Ringrose

Topic: “Storage of Carbon Dioxide in Saline Aquifers - Building Confidence by Forecasting and Monitoring”

Continuing into 2024, Philip Ringrose’s DISC focused on carbon storage solutions, addressing the critical need for effective carbon dioxide sequestration techniques. Designed to build confidence in forecasting and monitoring carbon storage in saline aquifers, his course provided attendees with the knowledge and skills to implement these solutions in their work.

Ringrose completed his book on this topic, which debuted alongside his course at IMAGE 2023. This DISC was highly impactful, given the growing importance of carbon management in addressing climate change. Ringrose conducted his last DISC course as a Tokyo virtual course, bringing his total attendance to more than 580 attendees. Due to the popularity of this DISC, there is still interest in continuing his course for 2025.

(cont. on next page)

PROFESSIONAL DEVELOPMENT

Key Sessions and Attendance:

- August 25, 2022: IMAGE 2022, Houston, TX – 20 attendees
- October 20, 2022: Stanford University, California – 21 attendees
- November 10, 2022: Chesapeake OKC, Oklahoma – 14 attendees
- November 18, 2022: CGG Massey, France – 43 attendees
- March 3, 2023: Colorado School of Mines, Colorado – 21 attendees
- April 19, 2023: Virtual Event – 24 attendees
- May 4, 2023: Haliburton/SBGF, Rio de Janeiro, Brazil – 22 attendees
- May 23, 2023: Chevron/GSH, Houston – 43 attendees
- June 2, 2023: JSEG, Tokyo, Japan – 45 attendees
- June 7, 2023: Petronas, Kuala Lumpur – 50 attendees
- June 12, 2023: NUS Haliburton, Singapore – 17 attendees
- August 28, 2023: IMAGE 2023, Houston, TX – 31 attendees
- September 27-28, 2023: SEG Evolve – 95 attendees
- November 30, 2023: SMILE MSCA-DN, Mallorca – 21 attendees
- December 7, 2023: Trondheim SEG Student Chapter – 19 attendees
- January 16, 2024: Chevron/GSH - 38 attendees
- January 18, 2024: SubsurfaceAI Inc. , Calgary, Canada - 24 attendees
- February 6, 2024: Woodside, Perth, Australia - 20 attendees
- February 8, 2024: ASEG/PESA, Adelaide, Australia - 23 attendees
- February 12, 2024: ASEG/PESA, Perth, Australia - 52 attendees
- March 19, 2024: AkerBP, Stavanger, Norway - 20 attendees
- April 9–10, 2024: Pesgb, London, England - 22 attendees
- May 30, 2024: Equinor, Oslo, Norway - 20 attendees
- June 14, 2024: EAGE Conference, Oslo, Norway - 12 attendees
- June 27, 2024: DGS, Saudi Arabia - 60 attendees
- August 21–22, 2024: Virtual Event, African time zone - 21 attendees
- October 3, 2024: Evolve Virtual Event Q&A - 57 attendees
- November 26–27, 2024: Equinor, Stavanger, Norway - 30 attendees
- December 13, 2024: Virtual Event, Tokyo, Japan - 14 attendees

INDIVIDUAL AND CORPORATE SUPPORTERS



Dave Monk Tuition Assistance Fund for 2024

ENDOWMENTS

- Richard and Fran Baile Endowment Fund

EXPERIENTIAL LEARNING

SEG EVOLVE: Innovating Energy Exploration and Carbon Solutions Through Real-World, Multidisciplinary Training

SEG EVOLVE is a mentor-guided virtual internship provided by the Society of Exploration Geophysicists (SEG) that equips participants with the practical skills and integrated knowledge needed for success in today's energy landscape. Working in multidisciplinary teams, students use technical and commercial data to engage in real-world exploration workflows, subsurface characterization, and business decision-making. With tracks in Energy Exploration and Carbon Solutions, the program spans applications from oil and gas to geothermal and carbon storage — bridging geology, geophysics, petrophysics, engineering, business, and communication to deliver global solutions for the world's energy future.

Program Overview

In 2024, the SEG EVOLVE Energy Exploration Program consisted of 10 teams worldwide, comprising 59 participants (44 male; 15 female) with nationalities from 19 countries: Canada, China, Colombia, East Timor, Egypt, Ghana, India, Iran, Kenya, Mexico, Nigeria, Oman, Pakistan, Portugal, Saudi Arabia, Sudan, the United States, Venezuela, and Yemen. These teams embarked on a journey of intensive training and mentorship, guided by more than 50 dedicated professionals and retirees serving as mentors.

Training and Development

Participants attended presentations and workshops throughout the program to build their technical knowledge and practical skills. Key sessions included:

- **Building a Framework: How to Get Started?** by Jeremy Greene and Jim Hewlett
- **Petrophysics** by Jeff Scheibel
- **Biostratigraphy** by Ryan Weber
- **Risk Analysis** by Henry Pettingill
- **Mapping Best Practices** by Jenny Thompson

These sessions covered various topics, from petrophysical analysis and geophysical mapping to business communications and economic evaluations. A new addition this year was geothermal exploration, and two teams were assigned datasets from Australia to explore geothermal in hot sedimentary aquifer potential, as well as carbon mitigation opportunities. The approach and support was provided by Geothermal Technologies.



Mid-Project and Final Presentations

Teams delivered Mid-Project presentations in March 2024, showcasing their initial findings and research progress. These presentations included geological research, petrophysical analysis, well-log calibration, and geophysical mapping. The feedback that participants received from mentors and SEG board members were instrumental in refining their projects.

Final Project presentations took place in May and June 2024. Teams presented their comprehensive studies, incorporating economic analysis and carbon mitigation strategies. These presentations were attended by SEG board members, SEG Foundation representatives, and subject matter experts, who provided valuable feedback and perspectives.

Carbon Solutions Program

The Carbon Solutions segment of the SEG EVOLVE program focuses on addressing climate change through innovative CO₂ storage solutions. In 2024, seven teams developed projects on the topic, and four teams attended the 2024 Carbon Capture, Utilization, and Storage (CCUS) Conference in Houston, Texas. One team (Colombia) was accepted for oral presentation, and three teams (Indonesia, United Arab Emirates, and Virginia Tech) were accepted for poster presentations.

EXPERIENTIAL LEARNING

At IMAGE '24, five teams presented their posters and also were invited to present during the WS-08 Post Convention Workshop Session: Geological Carbon Storage (GCS) and Reservoir Characterization Toward 2050 Commitment: Bottlenecks, Challenges, and Opportunities for Geophysics. These poster presentations were:

- **Carbon Storage Feasibility Assessment of the Vermilion Leasing Block, Central Gulf of Mexico, USA: Opportunities for Depleted Field and Saline Reservoir Storage** by Lars Cohen, Virginia Tech
- **Measurement, Monitoring and Verification (MMV) Framework to Enhance Sustainability of Decarbonization Plan in the North Sea Area** by Dwandari Ralanarko, Universitas Padjajaran
- **Estimation of CO₂ saturation in Porous Medium Using Cosmic Ray Muons: Laboratory Scale Experiment** by Ahmed Eleslambouly, KAUST
- **Re-assessment and Simulation of the Illinois Basin Decatur Project: Integration of New Geological Insights into the Carbon Capture and Storage Evaluation** by Katherin Herrera, Universidad Industrial de Santander
- **Machine Learning Approaches to Reveal CO₂ Leakage Points – a Case Study from Sleipner Field, Offshore Norway** by Basem Chikiban, Helwan University, University of Kansas, Texas A&M University

Success Stories and Impact

By combining hands-on experience with academic foundations, SEG EVOLVE equips participants for successful careers in geophysics while supporting global efforts in energy sustainability and climate change mitigation. With its focus on subsurface characterization and carbon solutions, the program is critical in advancing SEG's mission to foster innovation and excellence across the geosciences.

Looking Ahead

SEG EVOLVE plans to expand its reach and impact by securing additional funding and partnerships with industry leaders such as ExxonMobil, Geothermal Technologies, S&P Global, and more. The program aims to increase the number of participating teams and mentors, helping to ensure that more students and early-career professionals benefit from this transformative experience.

By fostering collaboration between academia, industry, and professional associations, SEG EVOLVE is creating a new generation of subsurface scientists equipped to tackle the challenges of tomorrow. The program's continued success and expansion underscore SEG's commitment to advancing the geosciences and positively impacting global energy solutions.

INDIVIDUAL AND CORPORATE SUPPORTERS



Arthur Cheng

Mike Forrest

Other individual donors

ENDOWMENTS

- Thomas A. and Evonne Smith Student Endowment

TECHNOLOGY DONORS

- Geothermal Technologies
- Rose Subsurface Assessment
- SLB
- S&P Global

DATA DONORS

- Fairfield Geotechnologies
- Illinois Basin – Decatur Project and the US Department of Energy
- GeoTomo Earth Modeling and Imaging Solutions
- The Sleipner Group



#SEGEVOLVE Carbon Solutions was a fantastic program that taught our team (Virginia Tech SEG Student Chapter) so much about how to develop #CCS projects. We are honored to have taken part in this program and contribute to carbon storage research!

— Lars Kohen, Virginia Tech

https://www.linkedin.com/posts/larskoehn_underground-carbon-storage-top-of-mind-for-activity-7188557051990573056-PfOS



Team Nebraska presenting their SEG EVOLVE project at IMAGE. Many-many thanks to their SEG mentor Jim DiSiena, who spent an enormous amount of time helping them throughout the project. Great job, Zachary Clowdus, Kaitlin Steinauer, Hermione Lofton, Morgan Madsen, and Ahmed Alsukaiti!

— Irina Filina, University of Nebraska–Lincoln

https://www.linkedin.com/posts/irina-filina_team-nebraska-presenting-their-seg-evolve-activity-7234548950714724353-VYsU



2024 *EVOLVE Teams*

SEG EVOLVE Energy Exploration 2024

Team	Country
China University of Petroleum – Beijing	China
University of Houston - O&G	USA
University of Houston - Geothermal	USA
Kurukshetra University	India
Instituto Politécnico Nacional	Mexico
Univeristy of Nebraska	USA
Nnamdi Azikiwe University	Nigeria
Oklahoma State University	USA
Instituto Superior Técnico - Lisboa	Portugal
University of Calgary	Canada

SEG EVOLVE Carbon Solutions 2024–2025

Uni. M'hamed Bougara Boumerdes	Algeria
"CSIR-NGRI Technische Universität Clausthal"	India & Germany
Colorado School of Mines	USA
Texas A&M, Corpus Christi	USA
University of Houston	USA
Virginia Tech	USA
University of Wyoming	USA

Field camps: Fueling the Future of Geoscience

The Society of Exploration Geophysicists (SEG) Field Camps program provides students with practical, hands-on training in geophysics, bridging the gap between theoretical knowledge and real-world application. This program is crucial in preparing the next generation of geoscientists by offering immersive field experiences that enhance their technical skills and understanding of geophysical methods.

Program Overview and Funding

In 2024, the Field Camps program received 15 applications, seven of which were approved for a total of \$41,193.58 in funding (see table below). The selection process is rigorous, ensuring that only the most promising and impactful field camps receive support. These camps are selected based on their ability to provide high-quality training and their potential to contribute to the participants' professional growth and development.

Name of Grantee University or SEG Student Chapter	Project Name	Total Funding
University of Naples Federico II SEG Student Chapter (Italy)	SEG Geophysics FC in Southern Italy 2024: GeoTermae: Imaging Opportunities	\$7,193.58
Summer of Applied Geophysical Experience (SAGE) (USA)	SAGE	\$12,000.00
SEG Bucharest Student Chapter (SEG-BSC) (Romania)	Geophysics for Civil Protection and Sustaining Humanitarian Aid Operations	\$5,000.00
SEG Universitas Gadjah Mada Student Chapter (Indonesia)	Field Camp SEG UGM SC 2024	\$5,000.00
Sofia University of Mining & Geology St. Ivan Rilski Geophysical Society (Bulgaria)	Geophysics Field Camp: Misty Strandzha 2024	\$4,000.00
KNUST Geophysical Society (Ghana)	Geophysical Studies of Suevite Deposits in the Bosumtwi Impact Crater	\$4,000.00
Tribhuvan University SEG Student Chapter (Nepal)	Training on Delineation of Water Contamination Zone of Bagmati River Using Environmental Geophysics	\$4,000.00

The SEG Health, Safety, Security, and Environment (HSSE) meeting was held in April, and comments on improvements were sent to the field camps' teams. The disbursing of the funds was conditioned on the completion and approval of the HSSE plan for some field camp teams. The field camp team from the Colorado School of Mines withdrew their application as they did not submit an updated HSSE plan that complied with the required content.

To ensure and promote the importance of safety in all field camps' activities, students attended a Virtual Field Safety Leadership class in mid-May. Award funds were disbursed to the selected field camps teams in May. The committee reviewed the 2023 final reports and selected the field camps from the University of Bucharest and the University of Naples Federico II to present their projects at IMAGE 2024. The committee continues its actions in promoting the importance of field camp grants through an article to be published in *The Leading Edge*.

Key Initiatives and Achievements

Virtual Introduction to Field Camp Safety and Leadership Course: In mid-May 2024, SEG organized a virtual Introduction to Field Camp Safety and Leadership course. This initiative aimed to enhance field camp participants' safety and leadership skills. Six field camps were selected to participate, with each camp allowed to send two participants. The course covered essential topics such as safety protocols, leadership principles, and best practices for fieldwork, ensuring that participants are well-prepared for their field experiences.

Field Camps at IMAGE 2024: The University of Bucharest and the University of Naples Federico II were selected to participate in IMAGE 2024, where they showcased their work and experiences at their respective field camps.

Alessia Ianniello from the University of Naples Federico II presented, "Sensing the Past: Discovering the Secret of Pompeii." Daria Elena Măciucă from the University of Bucharest presented, "Geophysical Investigation of Karst Systems and Thermo-Mineral Springs in Southern Dobrogea, Romania." The students also showcased their presentations alongside the SEG Evolve program. This participation provided a platform for the field camps to highlight their achievements, engage with a broader audience, and attract potential donors and supporters. The inclusion of field camps in such high-profile events

EXPERIENTIAL LEARNING

underscores the importance of practical training in geophysics and its impact on students' professional development.

Impact and Testimonials

The Field Camps program profoundly impacts the participants by providing them with unique opportunities to apply their classroom knowledge in real-world settings. Students gain hands-on experience in various geophysical techniques, including seismic surveys, electrical resistivity, ground-penetrating radar, and more. This practical training is invaluable, as it equips students with the skills and confidence needed to pursue successful careers in geophysics.

"We are delighted to share the successful accomplishment of the post-monsoon data collection (water sample collection and ERT survey) of [the] field camp 2024 Training on Delineation of Water Contamination Zone of the Bagmati River Using Environmental Geophysics in collaboration with the Department of Geology, Tri-Chandra Multiple Campus from October 20 to 25. We express our heartfelt gratitude to our trainers, Dr. Ashok Sigdel and Mr. Subash Acharya, for their indispensable efforts and valuable time. We also would like to express our sincere thanks to all the volunteers involved in the post-monsoon field camp for their commendable efforts. This training program has immensely shaped the true foundation of geophysics in contributing to real-life environmental causes in Nepal which has been one of the finest achievements of the student chapter. We are forever grateful to SEG and SEG Foundation for their faith, trust, and belief in us and our students. Lastly, we would like to appreciate and thank everyone involved in this field camp in their own capacities. This field camp couldn't have been possible without each one of us." - Tribhuvan University SEG Student Chapter, Nepal

https://www.linkedin.com/posts/tribhuvan-university-seg-student-chapter-9b4984220_we-are-delighted-to-share-the-successful-activity-7269909251869810688-pdyT

"All too soon, we have reached the end of our journey at the KNUST SEG Field Camp 2024. Over the past days, our participants have gained hands-on experience, applied geophysical techniques, and built foundations for their future careers. We're proud of the hard work and dedication shown by everyone involved. A special thanks to the SEG Foundation for their generous donation and also to Buck One Limited for joining us with their drone for aerial magnetic data collection. We're proud to have hosted students from different parts of the country, making this a truly collaborative experience. The future of geophysics is bright with this next generation of talent!" - KNUST Geophysical Society, Ghana

https://www.linkedin.com/posts/knust-geophysical-society_all-too-soon-we-have-reached-the-end-of-activity-7238165769577017344-mWK3

Future Directions

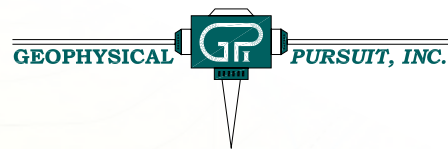
Looking ahead, SEG aims to expand the Field Camps program by increasing the number of funded camps and enhancing the scope of training offered. Efforts are underway to secure additional funding from corporate sponsors and donors to support more field camps and provide scholarships for participants. The program also plans to incorporate new training modules on emerging geophysical technologies and methodologies, ensuring that students are at the forefront of industry developments.

Moreover, SEG is committed to fostering diversity and inclusion within the Field Camps program. The organization is developing initiatives to encourage participation from underrepresented groups and help ensure that all students have access to high-quality field training opportunities. By broadening the program's reach and impact, SEG aims to cultivate a diverse and skilled workforce that is well-prepared to address the geophysical challenges of the future.

The SEG Field Camps program is a cornerstone of geophysical education, providing students with essential hands-on training and preparing them for successful careers in the field. Through rigorous selection, comprehensive training, and impactful field experiences, the program continues to make a significant difference in the lives of participants and the communities they serve. As SEG looks to the future, the expansion and enhancement of the Field Camps program remains a top priority, ensuring that it continues to meet the evolving needs of the geophysical community and contribute to the advancement of geoscience.

INDIVIDUAL AND CORPORATE SUPPORTERS

Various Individual Donors



ENDOWMENTS

- Hank Hamilton Field Camp Grants
- O. S. Petty Field Camp Grants
- Richard Degner Field Camp Grants
- Rutt Bridges Summer Field Camp Grants
- SAGE Field Camp Grants - funded by Larry Galloway, Jeff & Amie Springmeyer, and Geophysical Pursuit, INC.
- Thomas A. and Evonne Smith Student Endowment

STUDENT PROGRAMS

Student chapters: Empowering the Next Generation of Geophysical Leaders

Student Chapters are vital to the Society of Exploration Geophysicists (SEG), fostering a global network of aspiring geophysicists. These chapters provide a platform for students to engage with the geophysical community, participate in professional development activities, and gain hands-on experience in their field of study. In 2024, the SEG Student Chapters program continued to grow, making significant strides in student engagement, outreach, and educational activities.

Program Overview

As of 2024, SEG boasts more than 265 student chapters worldwide with over 100 active student chapters across the world, each contributing to the development of future geophysicists. The chapters are spread globally, with notable expansions in Africa, Asia, and South America. Seven new chapters were added: the Universiti Kebangsaan Malaysia SEG Student Chapter (Malaysia), the Federal University Rio De Janeiro Geophysical Society (Brazil), the Polytechnic University of Man Geophysical Society (Cote D'Ivoire, Africa), the University of Electronic Science and Technology of China Student Chapter (China), the Ahmadu Bello University SEG Student Chapter (Nigeria), the UFC Student Geophysical Society (Brazil), and the University of Trieste SEG Student Chapter (Italy).

Key Activities and Achievements

1. Student Leadership Symposium (SLS): The SEG/Chevron Student Leadership Symposium (SLS) is a cornerstone of the SEG Student Chapters program. In 2024, 38 students from various countries were selected to participate in the symposium held during IMAGE 2024 in Houston, Texas. The expanded two-day event included leadership development sessions, industry scenario activities with Chevron volunteers, and panel discussions with SEG board members. Continuing in 2024 were the Communication Enhancement Trainings based on Dale Carnegie principles, which were introduced in 2023 to improve participants' presentation and language skills. In 2024, the program also added two hours to its schedule to allow for student-led discussions on their vision for SEG and how the Society can be more involved with student chapters.

2. SEG Challenge Bowl: The Challenge Bowl is an exciting quiz competition that tests students' knowledge of geophysics. The SEG Challenge Bowl Committee is

actively working to expand the event globally. In 2024, the world finals were held at IMAGE '24, combining virtual and in-person participation. The event attracted enthusiastic participation from student chapters worldwide, further enhancing the sense of community and competition among young geophysicists.

3. Enhanced Communication and Re-engagement: The Student Engagements Subcommittee, along with SEG Staff, focused on starting new student chapters at universities and re-engaging dormant student chapters. A Student Chapter's Basecamp group was established to provide a platform for collaboration, important dates, and feedback.

Impact and Testimonials

The impact of SEG Student Chapters is evident in the success stories of their members. These chapters provide students with invaluable opportunities to develop leadership skills, engage in professional development, and participate in geophysical research. Student chapter members highlight the benefits of being part of a global network, gaining access to SEG resources, and participating in peer development events such as SEG Evolve, the SEG Challenge Bowl, and the SEG/Chevron Student Leadership Symposium (SLS).

Connecting a Global Network

SEG is committed to further expanding and enhancing the SEG Student Chapters program globally. Efforts are underway to attract more universities to establish new chapters, especially in emerging geophysical education regions. SEG is deploying marketing campaigns to highlight the benefits of joining the organization, including access to professional development resources and networking opportunities and participation in global events.

Additionally, SEG plans to introduce more training and development programs tailored to the needs of student chapters. This includes leadership training, technical workshops, and collaboration with industry partners to provide students with cutting-edge knowledge and skills. By continuously improving the support and resources available to student chapters, SEG aims to nurture the next generation of geophysicists and promote their success in the field.

STUDENT PROGRAMS

SEG Student Chapters are critical to the society's mission to support early career development in geophysics. These chapters provide students with the tools and opportunities needed to excel in their careers through initiatives like the Student Leadership Symposium, Challenge Bowl, and community outreach. As SEG looks to the future, the continued growth and enhancement of its student chapters program will remain a top priority for inspiring and empowering the next generation of geoscientists worldwide.

Student Chapter Excellence Program: Recognizing a Legacy of Leadership and Hands-On Learning in Geoscience

The Society of Exploration Geophysicists (SEG) Student Chapter Excellence Program recognizes excellence and incentivizes sustained engagement, leadership, and collaboration within the global geophysical student community. In 2024, the Student Chapter Excellence Award winner was the SEG Student Chapter at Kurukshetra University (India).

Founded on 9 November 2001, by Dr. S.S. Teotia, the SEG Student Chapter at Kurukshetra University promotes geoscience, allows students to explore geophysical technologies, and connects with global experts through educational activities and events.

The chapter focuses on hands-on learning through workshops, international collaborations, and SEG programs such as SEG EVOLVE and the SEG Challenge Bowl. Looking ahead, the chapter aims to strengthen collaborations, expand initiatives, and enhance outreach to further SEG's mission.

Program Overview

The SEG Student Chapter Excellence Program celebrates and supports outstanding engagement among SEG Student Chapters worldwide. To remain active and eligible for recognition, each chapter must submit an annual Student Chapter Report by 31 January, detailing activities conducted between 1 January and 31 December of the previous year.

Chapters are evaluated across several criteria, including participation in SEG programs, volunteering, outreach efforts, collaboration, co-curricular events, and faculty advisor involvement. Chapters are ranked at the Base, Ridge, Summit, or Best level based on their performance.

The top-performing chapter is awarded the prestigious Best Student Chapter Award, which includes a US\$5,000 travel grant for one student and the Faculty Advisor to attend IMAGE '24. Chapters showing significant year-over-year improvement may also receive the Most Improved Chapter Award and a US\$1,000 grant.

ENDOWMENTS

- Thomas A. and Evonne Smith Student Endowment
- SEG/Rutt Bridges Emerging Nations Grant
- Brain Sabin Student Support Fund

STUDENT PROGRAMS

SEG scholarships: Supporting Global Talent, Advancing Geophysics

The Society of Exploration Geophysicists (SEG) Scholarship program remains a cornerstone of the organization's commitment to fostering the education and development of future geophysicists. By providing financial assistance to exceptional students pursuing degrees in geophysics and related fields, SEG Scholarships continue to cultivate a diverse and skilled workforce essential for advancing the geophysical sciences.

Program Overview

The SEG Scholarship program offers a range of scholarships to students at various academic levels, from undergraduate to postgraduate studies. These scholarships are awarded based on academic excellence, financial need, and the potential to contribute to the field of geophysics. In 2024, the program maintained its strong global reach, attracting hundreds of applications from aspiring geophysicists worldwide.

2024 Application and Evaluation Process

The 2024 SEG Scholarship application process opened in late 2023 and closed on March 1, 2024. This year, the program received 375 qualified applications, reflecting the continued interest and competitiveness among students pursuing geophysics.

The Scholarship Committee, composed of experienced professionals and academics, conducted a rigorous evaluation process to review and assess each application. Key criteria for evaluation included:

- Academic performance and achievements;
- Financial need and personal background;
- Demonstrated interest and potential in geophysics; and
- Recommendations from professors and mentors.

The committee held its consensus meeting in mid-May 2024, which utilized both in-person and virtual formats to finalize award decisions. This hybrid approach helped ensure a thorough and inclusive review process.

Scholarship Awards and Recipients

In 2024, the SEG Scholarship Committee awarded a total of US\$246,485.22 to 66 students from 13 different countries. These scholarships provide critical financial support to cover tuition, fees, books, and other educational

expenses, enabling students to focus on their studies and pursue their academic and professional goals.

The distribution of awards across academic classifications is as follows:

Class	Applications	Awards	% Awarded	Funds Awarded
Freshmen	18	3	16.67%	US\$3,000.00
Undergraduate	145	19	13.10%	US\$49,420.12
Graduate	212	44	20.75%	US\$194,065.10
Total	375	66	17.60%	US\$246,485.22

Scholarships for the 2024-2025 academic year were awarded to students from Austria, Canada, China, France, India, Indonesia, Kazakhstan, Nigeria, Norway, Romania, Saudi Arabia, Scotland, and the United States. Recipients were notified in early June 2024, and scholarship payments were completed by early August. Additionally, members of the SEG Scholarship Committee served as advisors to the recipients throughout the academic year. The committee chair met with scholarship recipients at the SEG Foundation Lounge during IMAGE '24.

Impact and Testimonials

SEG Scholarships have a transformative impact on the lives and careers of recipients by contributing to their academic achievements and professional success. Many past recipients have gone on to make significant contributions to the field of geophysics.

"This scholarship is a significant contribution to my educational journey, allowing me to pursue my research with fewer financial concerns. My work focuses on leveraging artificial intelligence to improve geophysical exploration techniques. The support provided by this scholarship is invaluable in helping me achieve my research objectives and academic goals. The Michael T. Spradley Memorial Scholarship honors a legacy of excellence and dedication to the field of geophysics. I am inspired by this recognition and motivated to honor this legacy through my own academic and professional achievements. Thank you for your generous support. It means the world to me and significantly impacts my ability to succeed."

—Alisher Saduov, PhD, Kazakh National Research Technical University

STUDENT PROGRAMS

“From a young age, my parents nurtured my love for hiking and the outdoors, which, combined with my interest in science, sparked a fascination with the earth and its physical properties. By the time I finished high school, this fascination had evolved into a clear decision to pursue geophysics. Now, three years into my degree, I am proud of the path I’ve chosen and grateful for the inspiration and courage that led me here. Receiving this scholarship (Alexander Mihai and Catherine Anne Popvici Scholarship) is a significant affirmation of my journey.”

—*Adrian Pavel Rosca, senior, University of Bucharest*

“I am deeply committed to discovering sustainable energy solutions. Thanks to your scholarship (Michael L. Batzle Scholarship), I have been able to pursue my aspirations and make contributions to this vital field. Your support has provided me with access to crucial resources, opportunities to collaborate with leading experts, and the ability to attend conferences that have broadened my knowledge and professional network. Your generosity has alleviated my financial challenges and motivated me to excel academically.”

—*Mayra Dayana Lopez Carrasquilla, PhD, University of Houston*

These testimonials highlight the profound and lasting impact of SEG Scholarships on students’ educational and professional paths.

Future Directions

SEG remains dedicated to expanding the Scholarship program to support even more students in the years to come. Key initiatives include:

- **Increased Funding:** SEG Foundation aims to secure additional donations and sponsorships from industry leaders and corporate partners to grow the total scholarship funding. This will enable more students to benefit from the program and pursue their academic goals.
- **Enhanced Outreach:** Targeted outreach campaigns will be implemented to raise awareness about the SEG Scholarship program among underrepresented groups and regions with emerging geophysical education programs. These efforts aim to ensure a diverse and inclusive pool of applicants.

The SEG Scholarship program is a vital initiative that supports the education and development of future geophysicists. Through financial assistance, mentorship, and professional development opportunities, SEG Scholarships empower students to achieve their academic and career goals. As SEG continues to enhance and expand the program, its impact on the global geophysical community will grow, fostering a new generation of skilled and dedicated geophysicists.

SUPPORTERS

Scholarships were made possible by a range of individual and corporate supporters including Apache, BP, and Chevron.

STUDENT PROGRAMS

2024–2025 Scholarship Awards

SPONSORED SCHOLARSHIPS

SEG Foundation Scholarship

ENDOWED SCHOLARSHIPS

SEG 75th Anniversary Scholarship
 SEG/AGIP Scholarship
 SEG/James L. Allen Scholarship
 SEG Foundation/Apache Scholarship
 SEG Foundation/BP Scholarship
 Michael Bahorich/SEG Scholarship
 SEG/David Bartel Scholarship
 Michael L. Batzle Scholarship
 Ted Born Memorial Scholarship
 SEG/John R. Butler Jr. Scholarship
 SEG/Chevron Scholarship
 Dallas Geophysical Society Scholarship
 John D. Delbridge Memorial Scholarship
 SEG/Denver Geophysical Society Scholarship
 DGS/Karen Kellogg Shaw Memorial Scholarship
 SEG/Norman and Shirley Domenico Scholarship
 SEG/Excel Geophysical Services Scholarship
 ExxonMobil Upstream Research Co. Scholarship
 SEG Foundation Scholarships
 Donald and Nancy Frye Scholarship
 Debra and Mark Gregg Scholarship
 GSH/Carlton-Farren Scholarship
 GSH/Hugh Hardy Scholarship
 Geophysical Society of Oklahoma City Scholarship
 Geophysical Society of Tulsa/SEG Scholarship
 Frans and Alice Hammons Scholarship
 SEG/James and Ruth Harrison Scholarship
 SEG/ Marvin and Jene Hewitt Scholarship
 Fred and Kathi Hilterman Scholarship

SEG/Gerald W. Hohmann Memorial Scholarship
 SEG/Frantisek Hron Memorial Scholarship
 SEG/Ian G. Jack Scholarship
 KEGS/Phillip Hall of Memorial/SEG Scholarship
 SEG/Lucien LaCoste Scholarship
 SEG/David R. Lammlein Scholarship
 SEG/Landmark Scholarship
 Richard & Rollande Lockhart Scholarship
 David E. Lumley Scholarship in Energy & Environmental Science
 SEG/Thomas A. Mazza Memorial Scholarship
 SEG/Barbara McBride Memorial Scholarship
 Charles C. McBurney Memorial Scholarship
 Billy F. Mitcham, Sr. Memorial Scholarship
 Billy F. Mitcham, Jr. Scholarship
 SEG/Henry Bates Peacock Scholarship
 Alexander Mihai and Catherine Ann Popovici Scholarship
 James D. and Stella M. Robertson Scholarship
 Enders Robinson Endowed Scholarship
 SEG/Schlumberger Scholarship
 SEG/Gary and Lorene Servos Scholarship
 SEG/Shell E&P Scholarship
 Robert E. and Margaret S. Sheriff Scholarship
 Charlie and Jean Smith Scholarship
 Michael T. Spradley Memorial Scholarship
 Leon and Pat Thomsen/SEG Scholarship
 SEG/Jack and Catherine Threet Scholarship
 Aubra Tilley Scholarship
 Shirley A. & Stanley H. Ward Scholarship
 SEG/WesternGeco/Carl Savit Memorial Scholarship
 SEG/WesternGeco Scholarship
 SEG/WesternGeco/Henry Salvatori Memorial Scholarship
 J.E. White Memorial Scholarship
 SEG/David W. Worthington Scholarship
 Keith H. Wrolstad Memorial Scholarship
 W&T Offshore/Jerome F. "Jere" Freel Memorial Scholarship
 Kenneth L. Zonge Scholarship
 Brian Sabin

STATS

Total Awarded US\$246,485.22

Scholarship Recommendations Summary 2024–2025

Class	North America							International			
	Apps	Awards	Funds	Apps	Awards	%	Funds	Apps	Awards	%	Funds
Freshmen	18	3	\$3,000.00	18	3	4.55%	\$3,000.00	0	0	0.00%	\$0.00
Undergraduate	145	19	\$49,420.12	25	8	12.12%	\$36,945.52	120	11	16.67%	\$12,474.60
Graduate	212	44	\$194,065.10	130	31	46.97%	\$166,203.51	82	13	19.70%	\$27,861.59
Total	375	66	\$246,485.22	173	42	63.64%	\$206,149.03	202	24	36.37%	\$40,336.19

Values from US\$500-\$10,000 (average US\$3,600)

Global Impact

Scholarships for the 2024-2025 academic year were awarded to students in the following countries: Austria, Canada, China, France, India, Indonesia, Kazakhstan, Nigeria, Norway, Romania, Saudi Arabia, Scotland, and the United States.

Applications		Award/Grants	
Evaluated	375	Recipients	66
Universities	154	Universities	44
Countries	37	Countries	13

STUDENT PROGRAMS

2024–2025

Scholarship Awards

SEG Foundation Scholarship		
Joses Omojola	PhD	University of Arizona
Oyewande Olumide Ojo	PhD	Oklahoma State University
SEG Foundation Scholarship		
Ilechukwu Juliet Nneamaka	PhD	Nnamdi Azikiwe University Awka
Kaitlyn Bryant	Junior	University of Houston
SEG 75th Anniversary Scholarship		
Alisher Saduov	PhD	Kazakh National Research Technical University
Dwandari Ralanarko	PhD	Universitas Padjadjaran
Shuhua Hu	PhD	University of Texas at Austin
Zoe Weissman	Freshmen	Hamilton College
SEG/AGIP Scholarship		
Alisher Saduov	PhD	Kazakh National Research Technical University
Indah Cahya Fitria	Junior	University of Indonesia
Muhammad Exel Putra	Junior	Sumatera Institute of Technology
SEG/James L. Allen Scholarship		
Eva Beth Smith	PhD	University of Wyoming
SEG Foundation/Apache Scholarship		
Madeline Marie Kronebusch	Senior	Virginia Tech
SEG Foundation/BP Scholarship		
Osinaya Temitayo Augustine	Honors	Federal University of Technology Akure
Somaabha Bhattacharjee	Senior	Rajiv Gandhi Institute of Petroleum Technology
Zoe Weissman	Freshmen	Hamilton College
Michael Bahorich/SEG Scholarship		
Alexander Twene Ankamah	PhD	Virginia Tech
SEG/David Bartel Scholarship		
Adnan Hasyim Wibowo	Junior	University of Indonesia
Alisher Saduov	PhD	Kazakh National Research Technical University
Rasheed Peter Adetokunbo	PhD	Oklahoma State University

STUDENT PROGRAMS

Michael L. Batzle Scholarship		
Mayra Dayana Lopez Carrasquilla	PhD	University of Houston
Ted Born Memorial Scholarship		
Isaac Fry	Senior	Colorado School of Mines
SEG/John R. Butler Jr. Scholarship		
Sharmila Appini	PhD	University of Houston
SEG/Chevron Scholarship		
Sara Kellal	PhD	King Fahd University of Petroleum and Minerals
Dallas Geophysical Society Scholarship		
Mayra Dayana Lopez Carrasquilla	PhD	University of Houston
John D. Delbridge Memorial Scholarship		
Ilechukwu Juliet Nneamaka	PhD	Nnamdi Azikiwe University Awka
SEG/Denver Geophysical Society Scholarship		
Alexander Ilacqua	Sophomore	Cornell University
Isaac Fry	Senior	Colorado School of Mines
DGS/Karen Kellogg Shaw Memorial Scholarship		
Yu Chen	PhD	The University of Texas at Dallas
SEG/Norman and Shirley Domenico Scholarship		
Abhinav Pratap Singh	PhD	Georgia Institute of Technology
Yinshuo Li	PhD	Tsinghua University
SEG/Excel Geophysical Services Scholarship		
Nicholas John Edwards	Junior	Memorial University of Newfoundland
ExxonMobil Upstream Research Co. Scholarship		
Sharmila Appini	PhD	University of Houston
Shuhua Hu	PhD	University of Texas at Austin
SEG Foundation Scholarships		
Abhinav Pratap Singh	PhD	Georgia Institute of Technology
Donald and Nancy Frye Scholarship		
Caleb Wayne Leatherwood	Junior	University of Texas at Dallas

STUDENT PROGRAMS

Debra and Mark Gregg Scholarship		
Adesh Pandey	PhD	Colorado School of Mines
GSH/Carlton-Farren Scholarship		
Maeghan Wynng-Tsun Gourlay	Freshmen	Texas Tech University
Nicholas Van Fleet	Junior	University of Utah
GSH/Hugh Hardy Scholarship		
Caleb Wayne Leatherwood	Junior	University of Texas at Dallas
Nicholas Van Fleet	Junior	University of Utah
Geophysical Society of Oklahoma City Scholarship		
Shuhua Hu	PhD	University of Texas at Austin
Geophysical Society of Tulsa/SEG Scholarship		
Oyewande Olumide Ojo	PhD	Oklahoma State University
Frans and Alice Hammons Scholarship		
Oyewande Olumide Ojo	PhD	Oklahoma State University
SEG/James and Ruth Harrison Scholarship		
Sharmila Appini	PhD	University of Houston, Main Campus
SEG/ Marvin and Jene Hewitt Scholarship		
Jun Wang	PhD	Chengdu University of Technology
Fred and Kathi Hilterman Scholarship		
Joses Omojola	PhD	University of Arizona
Zoe Weissman	Freshmen	Hamilton College
SEG/Gerald W. Hohmann Memorial Scholarship		
Abhinav Pratap Singh	PhD	Georgia Institute of Technology
Cornelia Magdalena	Honors	University of Indonesia
SEG/Frantisek Hron Memorial Scholarship		
Zoe Elizabeth Vestrum	PhD	University of Alberta
SEG/Ian G. Jack Scholarship		
Shi-Yuan Toh	PhD	Heriot-Watt University
KEGS/Phillip Hallof Memorial/SEG Scholarship		
Nicholas John Edwards	Junior	Memorial University of Newfoundland

STUDENT PROGRAMS

SEG/Lucien LaCoste Scholarship		
Tochukwu Emmanuel Onyebum	PhD	University of Nebraska-Lincoln
SEG/David R. Lammlein Scholarship		
Shuhua Hu	PhD	University of Texas at Austin
SEG/Landmark Scholarship		
Jinji Li	PhD	University of Calgary
Richard & Rollande Lockhart Scholarship		
Silas Adeoluwa Samuel	PhD	Oklahoma State University
David E. Lumley Scholarship in Energy & Environmental Science		
Constance Sauve	Sophomore	University of Utah
Harshwardhanam Nishanta	Junior	Rajiv Gandhi Institute of Petroleum Technology
SEG/Thomas A. Mazza Memorial Scholarship		
Sankha Subhra Mahanti	PhD	University of Arizona
SEG/Barbara McBride Memorial Scholarship		
Maureen Omomize James	PhD	Colorado School of Mines
Billy F. Mitcham, Sr. Memorial Scholarship		
Conner Lester	PhD	Duke University
Billy F. Mitcham, Jr. Scholarship		
Isaac Fry	Senior	Colorado School of Mines
Alexander Mihai and Catherine Ann Popovici Scholarship		
Daria Elena Maciuca	Master's	IFP School
Rosca Adrian-Pavel	Senior	University of Bucharest
James D. and Stella M. Robertson Scholarship		
Nicholas John Edwards	Junior	Memorial University of Newfoundland
Sankha Subhra Mahanti	PhD	University of Arizona
Enders Robinson Endowed Scholarship		
Muogbo Chibuike Dominic	Junior	Nnamdi Azikiwe University Awka
SEG/Schlumberger Scholarship		
Wang Yirong	PhD	Tongji University

STUDENT PROGRAMS

SEG/Gary and Lorene Servos Scholarship		
Richard Amon Kramer	PhD	University of Vienna
SEG/Shell E&P Scholarship		
Deanis Habibie Wisnuputra	Junior	University of Indonesia
Robert E. and Margaret S. Sheriff Scholarship		
Moro Abdullah	PhD	University of Houston
Oluwaseun Daniel AKINYEMI	PhD	University of Houston
Charlie and Jean Smith Scholarship		
Adesh Pandey	PhD	Colorado School of Mines
Ashley Lauren Whorton	Senior	Texas A&M University
David Tianyi Zhou		Stanford University
Ramadan Gamal Abouelmagd Abdelrehim	PhD	Texas A&M University
Silas Adeoluwa Samuel	PhD	Oklahoma State University
Zoe Elizabeth Vestrum	PhD	University of Alberta
Michael T. Spradley Memorial Scholarship		
Agbeyemi Opeyemi Ebenezer	Honors	Federal University of Technology Akure
Alisher Saduov	PhD	Kazakh National Research Technical University
Margaret Adenike Adeniran	PhD	Pan African Univ. Life and Earth Science Institute
Sankha Subhra Mahanti	PhD	University of Arizona
Leon and Pat Thomsen/SEG Scholarship		
Eva Beth Smith	PhD	University of Wyoming
Leon and Pat Thomsen/SEG Scholarship		
Shi-Yuan Toh	PhD	Heriot-Watt University
SEG/Jack and Catherine Threet Scholarship		
Adnan Hasyim Wibowo	Junior	University of Indonesia
Didi Chekwube Nnamdi	PhD	Pan African University
Muogbo Chibuike Dominic	Junior	Nnamdi Azikiwe University Awka
Owen Rohwer Huff	PhD	University of Oslo
Yinshuo Li	PhD	Tsinghua University
Aubra Tilley Scholarship		
Ganiyat Shodunke	PhD	University of Oklahoma
Segun Steven Bodunde	PhD	University of Oklahoma
Shirley A. & Stanley H. Ward Scholarship		
Dorothy Kanini Mwanzia	PhD	Colorado School of Mines

STUDENT PROGRAMS

SEG/WesternGeco/Carl Savit Memorial Scholarship		
Yu Chen	PhD	The University of Texas at Dallas
SEG/WesternGeco Scholarship		
Alexander Twene Ankamah	PhD	Virginia Tech
SEG/WesternGeco/Henry Salvatori Memorial Scholarship		
Victor Fakeye	PhD	Colorado School of Mines
J.E. White Memorial Scholarship		
Derrick Chambers	PhD	Colorado School of Mines
SEG/David W. Worthington Scholarship		
Esther Omotayo Oyedele	PhD	Virginia Tech
Osadebamwen Leonard Ohenhen	PhD	Virginia Tech
Keith H. Wrolstad Memorial Scholarship		
Lars William Koehn	PhD	Virginia Tech
Kenneth L. Zonge Scholarship		
Efemena Destiny Emmanuel	PhD	The University of Toledo
SEG/Brian Sabin Scholarship		
Conner Lester	PhD	Duke University

STUDENT PROGRAMS

SEG/Chevron Student Leadership Symposium: Empowering future leaders in geophysics

The Society of Exploration Geophysicists (SEG)/Chevron Student Leadership Symposium (SLS) is a prestigious program designed to cultivate global leadership skills among geophysics students. The symposium provides a unique platform for students to engage with industry leaders, develop their leadership capabilities, and gain insights into the geophysical profession. In 2024, the SLS program continued its expansion, offering enhanced opportunities for participants to connect, learn, and grow.

Program Overview

The SLS is highly competitive, attracting applications from top geophysics students worldwide. For 2024, applications opened on November 6, 2023, and closed on February 19, 2024. The Travel Grant Committee carefully evaluated the applications, and awardees were notified by the end of April. This year, 38 students from diverse backgrounds and 18 countries were selected to participate in the symposium in conjunction with IMAGE 2024 in Houston, Texas.

Key Activities and Enhancements

Leadership Development Sessions: The core of the SLS program is its leadership development sessions. These sessions help students build essential leadership skills such as teamwork, communication, and problem-solving. Participants engage in interactive activities and workshops led by experienced industry professionals, gaining practical insights into leadership in the geophysical field. As an addition at IMAGE '24, the program added two more hours to the schedule to provide time for a student-led discussion on their vision for SEG and how the society can be more involved with student chapters.

Real-World Industry Scenarios: One of the highlights of the SLS program is the opportunity for students to apply their knowledge to real-world industry scenarios. With the guidance of Chevron volunteers, participants work on challenging projects that mimic real industry situations. This hands-on experience allows students to understand the complexities of geophysical work and develop solutions that reflect industry practices.

Panel Discussions and Networking: The symposium features panel discussions with SEG board members

and committee leaders, offering students the chance to learn from seasoned professionals. These discussions cover various topics, from career development to industry trends, providing valuable insights and advice. Additionally, the expanded two-day format of the symposium allows for more networking opportunities, so students can build lasting connections with their peers and industry leaders.

Communication Enhancement Trainings: Continuing in 2024, the SLS program utilized Communication Enhancement Trainings based on the teachings and principles of Dale Carnegie. Facilitated by SEG Foundation staff member Sarah Castro, these sessions occurred in July 2024 with virtual student meetings to learn aspects of Dale Carnegie's communication styles. This enhancement continues to be well-received, enriching the participants' overall experience and professional growth.

Another method of enhancing communication in 2024 was the formation of a Student Chapters Basecamp Group and a WhatsApp group to foster increased communication and collaboration between students around the world.

Impact and Testimonials

The impact of the SLS program is evident in the feedback from participants and the broader geophysical community. Students who have attended the symposium often highlight the transformative nature of the experience. They gain not only leadership skills but also a deeper understanding of the geophysical profession and its opportunities.

"I'm excited to be selected among 50 students globally to attend the SEG/Chevron Student Leadership Symposium (SLS) and IMAGE '24 in Houston this summer, where I presented a poster on the Virginia Tech SEG Chapter activities and my research at the EOI Lab at Virginia Tech College of Science. We, my teammate Jonathan Lucy and I, also competed at the world final of the knowledge based SEG Challenge Bowl, representing Virginia Tech and finishing in the top 20 teams globally! I had the chance to meet SEG president Joseph M Reilly, a Hokie fellow, connect with incredible people representing their SEG chapters worldwide, and volunteer at the Applied Science Education Program (ASEP). A huge thank you to SEG, Chevron and the amazing organizers, especially Annabella

STUDENT PROGRAMS

Betancourt, Jessica Dostal, and Sarah Castro for making this experience happen.”

–Mohammad Khorrami, 2024 SEG/Chevron SLS participant

https://www.linkedin.com/posts/mohammad-khorrami-515ab5101_a-summary-on-my-attendance-at-sls-image-activity-7241338731658383360-nfya

“I am deeply grateful to SEG and Chevron for selecting me to participate in the Student Leadership Symposium (SLS) held at IMAGE 2024. This experience provided invaluable opportunities for soft skill development, teamwork, and networking. A special thanks to the SEG team, Jessica Dostal, Annabella Betancourt, and the Chevron mentors for their dedication and support. I would also like to congratulate my peers from around the world for their dedication, outstanding performance, and for sharing a glimpse of their cultures with me. Thank you, SEG and Chevron, for your continued commitment to the development and training of students and young professionals, both from a technical and a talent perspective.”

–Alexander Cordero, 2024 SEG/Chevron SLS participant

https://www.linkedin.com/posts/alexander-cordero1407_seg-chevron-sls-activity-7235809862599782402-nrUt

“I’m thrilled to share that I had the incredible opportunity to attend the SEG/Chevron Student Leadership Symposium as part of the IMAGE Conference from August 24-30 in Houston, Texas! This event was a unique platform to connect with like-minded student leaders and industry experts from across the globe, offering invaluable insights into leadership, innovation, and the future of geophysics. As Vice President of the SEG BHOS Student Chapter, I was proud to represent my chapter during the poster session, showcasing the initiatives and accomplishments of our student community. It was an honor to engage with peers, share our work, and learn from their experiences. A huge thank you to SEG and Chevron for organizing this impactful event and for their generous support in making it possible. Special thanks to Annabella Betancourt and Jessica Dostal for their dedication and hard work in bringing everything together smoothly. Your efforts made this experience unforgettable! This week has been a transformative experience — one that I’ll carry with me as I continue my journey in the energy sector. Looking forward to applying the knowledge gained and making meaningful contributions to the industry!”

–Museyib Taghiyev, 2024 SEG/Chevron SLS participant

https://www.linkedin.com/posts/museyib-taghiyev_sls-image-leadership-activity-7238272936808239104-9COv

Inspiring Future Leaders

The SEG/Chevron SLS is a vital program that empowers the next generation of geophysics leaders. It provides students with the skills and insights needed to succeed in their careers through leadership development sessions, real-world industry scenarios, panel discussions, and enhanced communication training. As SEG and Chevron look to the future, the continued growth and enhancement of the SLS program will ensure that it remains a pivotal professional development opportunity for geophysics students worldwide.

CORPORATE SUPPORTER



STUDENT PROGRAMS

2024 SEG/Chevron Student Leadership Symposium Participants

Student Name	University
Ramadan Abdelrehim	Texas A&M University-Corpus Christi
Young Ho Aladro	Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California
Saleh Almadani	King Fahd University of Petroleum and Minerals
Nassim Arar	M'hamed Bougara University of Boumerdes, Faculty of hydrocarbons and chemistry
Olusoji Benjamin	University of Texas Permian Basin
Somaabha Bhattacharjee	Rajiv Gandhi Institute of Petroleum Technology
Gui Chen	China University of Petroleum (Beijing)
Yu Chen	The University of Texas at Dallas
Aditya Chowdhury	Indian Institute of Technology (Indian School of Mines)
Alexander Cordero	University of Oklahoma
Ahmed Eleslambouly	Khalifa University
Katherin Herrera	Industrial University of Santander
Owen Huff	University of Oslo
Makenna Hughes	Hope College
Alessia Ianniello	University of Naples "Federico II"
Irina Ivanova	University of Mining and Geology "St. Ivan Rilski"
Chatchai Karapong	Missouri University of Science and Technology
Mohammad Khorrami	Virginia Tech
Kristina Kucinskaite	Uppsala University
Phuc Mach	Georgia Institute of Technology
Anar Maharramli	Azerbaijan State Oil and Industry University
David Naranjo-Hernandez	Delft University of Technology
Dea Oemaiya	KAUST
Pelluri Latha	CSIR- National Geophysical Research Institute
Simone Probst	ETH Zurich

STUDENT PROGRAMS

Student Name	University
Muhammad Putra	Sumatera Institute of Technology
Muhammad Radityatama	University of Brawijaya
Kenneth Shipper	University of Houston
Kaitlin Steinauer	University of Nebraska-Lincoln
David Starkovich	University of Louisiana at Lafayette
Salsabilla	Syiah Kuala University
Museyib Taghiyev	Baku Higher Oil School
Joshua Thompson	Rutgers University
Tamara Tóthi	Eötvös Loránd University
Uriel Vera Cruz	National Autonomous University of Mexico
Fathia Zahirani	University of Indonesia
Rosie Zhu	Rice University
Zohreh Abbasi Hafshjani	University of Memphis



STUDENT PROGRAMS

SEG Challenge Bowl: A Global Geoscience Showdown

Launched in 2006 under the leadership of then Society of Exploration Geophysicists (SEG) President Peter Duncan, the SEG Challenge Bowl has grown into a premier competition for geoscience students worldwide. What began as a small, quiz-style contest — originally inspired by an event hosted by the Society of Petroleum Geophysicists (SPG) in Hyderabad, India — has expanded from just six teams in 2007 to more than 50 in recent years.

Through a fast-paced, multiple-choice quiz format, this high-energy competition challenges students' expertise across various geoscience disciplines, including geology, geophysics, geography, and geodesy. Regional and local competitions take place across the globe, with top teams earning a coveted spot in the SEG Challenge Bowl World Finals, held annually at the International Meeting for Applied Geoscience and Energy (IMAGE) in Houston, Texas. Since COVID-19, the competition has embraced a hybrid format, enabling students to participate virtually, thus broadening its reach and inclusivity.

How the Challenge Bowl Became a Geoscience Legacy

The SEG Challenge Bowl has become a cornerstone of geoscience education, celebrated for its academic rigor,



international reach, and commitment to student development. Through its quiz-show format, two teams compete head-to-head, answering rapid-fire questions that span technical geoscience concepts, historical milestones, and SEG's contributions to the field. With questions ranging from undergraduate to graduate difficulty, the competition provides an immersive learning experience that challenges and inspires students.

In response to the COVID-19 pandemic, the SEG Challenge Bowl was adapted in 2021 by transitioning to a fully virtual format which allows for continued student participation

worldwide. Using an advanced online buzzer system, 19 teams from eight countries competed in the World Finals, demonstrating the resilience and adaptability of both the competition and its participants. Even in a digital environment, the SEG Challenge Bowl maintained its spirit of excitement, engagement, and academic excellence — solidifying its legacy in geoscience education.

More Teams, More Countries, More Competition

The 2024 SEG Challenge Bowl continued this proud tradition of fostering academic competition on a global scale. During the year, 11 regional competitions took place, and 112 teams from across the world vied for a spot in the prestigious World Finals. Regional contests were hosted in locations such as Canada, Italy, Mexico, the United States, Nigeria, and Saudi Arabia, with local universities and SEG

Student Chapters organizing these highly anticipated events.



“Participating in the SEG 2024 Challenge Bowl was an exhilarating experience that truly put our team’s skills to the test. The fast-paced nature of the competition demanded quick thinking and decisive action, allowing us to apply our practical knowledge within mere seconds. It was a fantastic opportunity to showcase our abilities in a competitive environment, and the challenge pushed us to excel and adapt under pressure. Thank you to all the

STUDENT PROGRAMS

teams who participated,” said Jaren Schuette, Oklahoma State University.

The 2024 SEG Challenge Bowl World Finals at IMAGE '24 brought together 21 teams in a thrilling test of geoscience knowledge. Claiming the top spot were Maria Andrea Santos Gonzalez and Juan Carlos Gutiérrez Barrera of The First Element from the Industrial University of Santander (Colombia). Second place went to Drishti Sen and Aditya Chowdhury from the Indian Institute of Technology, Dhanbad (India). Third place went to Arkajit Chakrabarti and Arindom Gogoi from the CSIR-National Geophysical Research Institute (India).

The hybrid format of the finals allowed teams to participate both in-person and virtually, further highlighting the global inclusivity and flexibility of the competition.

“Aditya Chowdhury and I had the incredible opportunity of representing Indian Institute of Technology (Indian School of Mines), Dhanbad in the 2024 SEG Challenge Bowl! Our team, GeoDynAmo, secured 1st Place among 21 teams in the SEG Asia Pacific Challenge Bowl; after qualifying we went on to achieve the 2nd Place out of 24 teams in the SEG Challenge Bowl World Finals! The regional qualifying rounds took place virtually this summer, and we were selected for the finals, which were held during IMAGE '24 in Houston, Texas. While Aditya attended in person, I virtually took part in it. This journey has been an interesting ride of learning filled with a lot of excitement and pride. A huge thanks to SEG for making it a truly memorable experience,” said Drishti Sen, Indian Institute of Technology, Dhanbad.

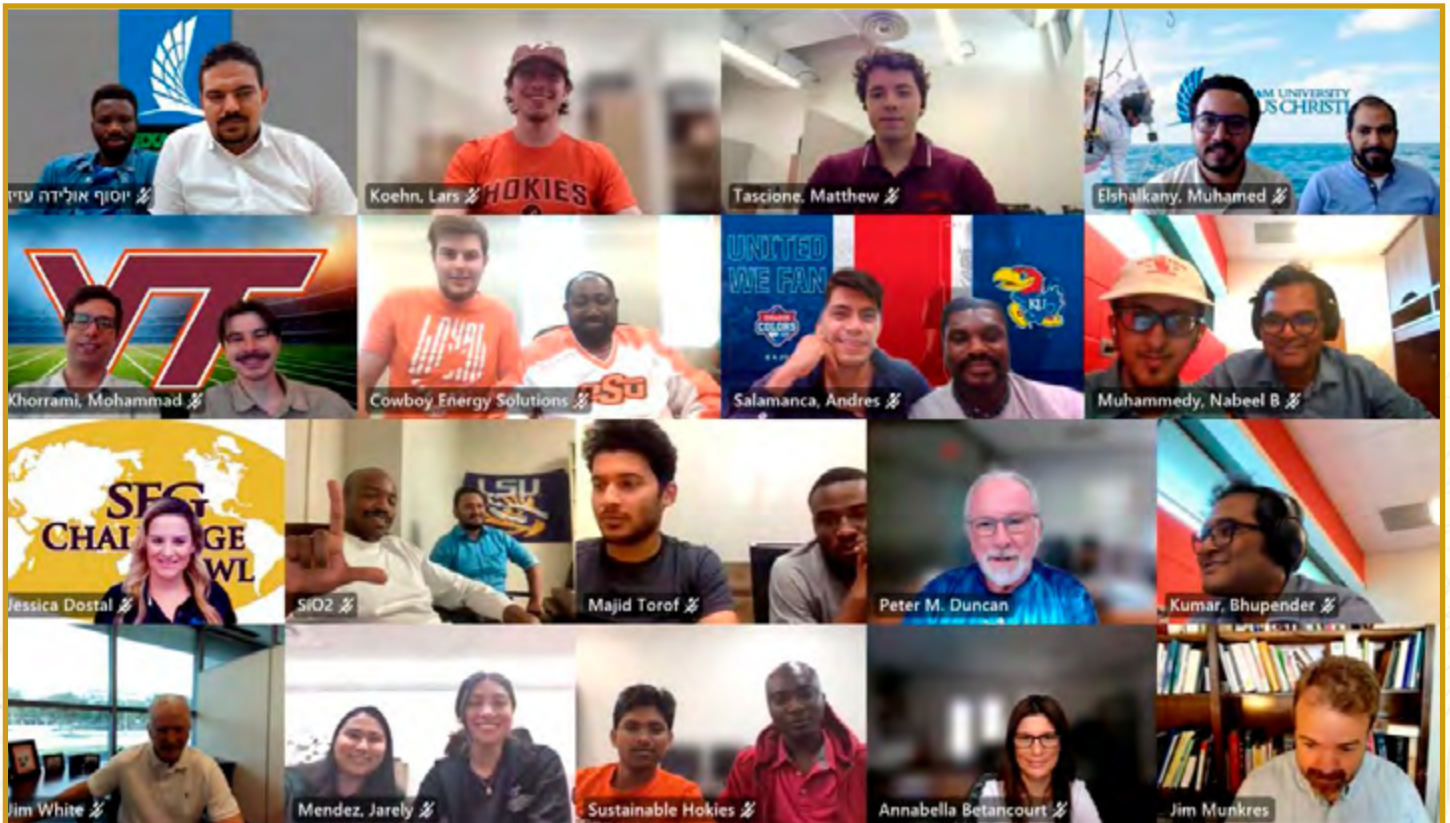
Beyond the Buzzers: Inspiring Future Geoscientists

The SEG Challenge Bowl is more than a competition — it's a gateway to opportunity for aspiring geoscientists worldwide. By combining academic rigor with a fast-paced, high-energy format, this academic challenge enhances student engagement while fostering critical thinking and teamwork. In 2024, the SEG Challenge Bowl Committee continued its efforts to make the event accessible, awarding \$1,400 to SEG Student Chapters to support local and regional competitions.

The introduction of a hybrid format has further expanded participation, allowing students from all corners of the globe to compete, collaborate, and showcase their expertise. As it evolves, the SEG Challenge Bowl remains a cornerstone of geoscience education, strengthening networks, igniting passion for the field, and preparing students for future success.

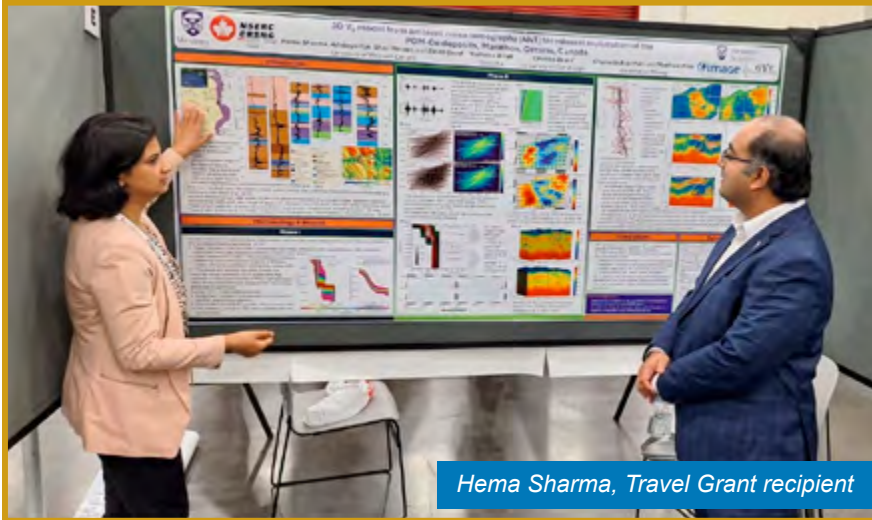
INDIVIDUAL SUPPORTERS ENDOWMENTS

- Fred and Kathi Hilterman Endowment
- John W.C. Sherwood Endowment



STUDENT PROGRAMS

Student travel grants: From Classroom to Conference: Supporting Student Success



Hema Sharma, Travel Grant recipient

Thanks to the generosity of our donors, Society of Exploration Geophysicists (SEG) and the SEG Foundation continue to support aspiring geophysicists through Technical Program Registration Grants. These grants provide students and recent graduates presenting papers at IMAGE 2024 in Houston with fully covered registration fees for in-person attendance.

“I am honored to receive the SEG/Chevron SLS Travel Grant,” said Mohammad Khorrami, Virginia Tech.

Additional support for travel-related expenses may also be available when funding allows, helping to remove financial barriers that could otherwise limit participation.

“Thank you SEG and Jessica Dostal for the SEG Travel Grant. It was great to present my research, and I got some wonderful feedback,” said Hema Sharma, Western University (see photo)

By contributing, you directly enable young geophysicists to gain valuable hands-on experience at SEG-sponsored events. These events offer a platform to present research, engage with industry experts, and connect with future employers — critical steps in shaping their careers and fostering a lasting passion for geophysics.

Together, we are investing in the future of geophysics, ensuring that the next generation of innovators and thought leaders has the support and opportunities needed to thrive.

“We are proud to share the incredible journey of our chapter’s members, Anar Maharramli, Milana Shakhbazova, and Oruj Mehraliyev, who had the honor

of being selected out of 38 students from 24 countries to receive a full travel grant from the Society of Exploration Geophysicists (SEG)! Anar had the opportunity to attend the SEG/ Chevron Student Leadership Symposium (SLS), while Milana and Oruj participated in IMAGE ‘24 in Houston.”

At the SLS, participants had the chance to engage with Chevron professionals, participate in field-related exercises, and present ideas to industry experts. The IMAGE ‘24 convention allowed students to network with representatives from leading companies and gain invaluable insights into the industry.

This experience, which brought together the best and brightest from around the world, highlights the immense opportunities available to students when passion meets purpose.

We are grateful to SEG for this opportunity and look forward to continuing to push boundaries in exploration geophysics!”
- SEG ASOIU Student Chapter (See group photo)

INDIVIDUAL SUPPORTERS

Arthur Cheng
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ENDOWMENTS

- Thomas A. and Evonne Smith Student Endowment



SEG ASOIU Student Chapter

STUDENT PROGRAMS

The Near-Surface Geophysical Research Award: Pushing Boundaries Beneath the Surface

The Society of Exploration Geophysicists (SEG) Near Surface (NS) Geophysical Research Award continues to spark unprecedented advancements in innovative geophysical research, as highlighted by the achievements of 2024 recipient Daniel May.

May's academic journey began at Cornell University, where he earned dual Bachelor of Science degrees in environmental engineering and earth systems science in 2018. He gained hands-on experience analyzing seismic data as part of Cornell's Earth Source Heat Project — an initiative focused on sustainable geothermal energy.

Eager to deepen his expertise, May pursued a Master of Science in applied geophysics through the IDEA League Joint Master's Program, studying at TU Delft, ETH Zürich, and RWTH Aachen. While there, his research broke new ground by leveraging passive seismic data to monitor ice thickness on alpine lakes, an early indication of his passion for applying geophysics to pressing environmental challenges.

In 2021, May embarked on a PhD in geophysics at Stanford University, where he joined field campaigns at Antarctica's Thwaites Glacier. His work, which combines radar and seismic techniques, aims to better understand glacier dynamics and bring forward critical insights into the context of climate change and rising sea levels. Today, his research focuses on enhancing multi-offset radio-echo sounding methods to infer subglacial properties, with an ambitious long-term goal: developing fiber-optic radar imaging arrays that draw on his seismology background to revolutionize radioglaciology.

The NS Research Award has played a vital role in supporting May's innovative work. More than just financial support, this award represents a meaningful investment in the future of geophysics. It empowers emerging scientists to pursue bold ideas, advance the science, and address some of the world's most pressing environmental issues. May's story is a powerful reminder of why sustained investment in early-career researchers is critical to advancing our understanding of Earth.

About the Award

The SEG Near Surface Geophysical Research Award endowment provides research grants to support undergraduate or graduate students engaged in NS geophysics research in a relevant academic program at an accredited institution. Awards are intended to offset expenses directly related to the awardee's NS geophysics research.

NS geophysics typically involves the application of geophysical techniques to the study of subsurface targets other than oil and gas. Depths of investigation may range from less than a meter to greater than a kilometer, and applications include (but are not limited to) hydrogeologic studies, earthquake hazard assessment, geotechnical evaluation, archeological investigations, and agricultural studies. The SEG Near-Surface Geophysics Technical Section is the founding supporter of this endowment.

SUPPORTERS

- Near-Surface Geophysical Research Award Fund Endowment

OTHER PROGRAMS

SEG Online: Empowering Geophysicists with Knowledge, Innovation, and Connectivity

SEG Online remains an essential hub for geophysicists worldwide, providing instant access to cutting-edge research, industry tools, and professional development resources. Through continuous innovation, Society of Exploration Geophysicists (SEG) enhances the digital experience to deliver relevant, high-value content that keeps members informed and engaged.

Recent advancements include an upgraded user interface, enhanced security protocols, and a seamless, device-friendly platform. Personalized features, such as curated

email updates, help ensure members stay connected to the latest breakthroughs in their fields. Behind the scenes, SEG's robust technology infrastructure supports fast, secure content delivery, keeping geophysical professionals at the forefront of industry advancements.

With your support, SEG can continue to expand and refine its digital offerings, making geophysical knowledge more accessible than ever and strengthening the global geophysical community.

SEG On Demand: Empowering Global Geophysical Education

SEG On Demand is a cutting-edge membership platform revolutionizing access to geophysical knowledge for professionals and students worldwide. Supported by our generous donors, CNPC BGP, it offers an extensive range of resources by industry experts, enabling thousands to engage with innovative ideas and groundbreaking research.

The platform features recorded sessions from Society of Exploration Geophysicists (SEG)'s Distinguished Instructor Short Courses (DISC), virtual courses, Annual Meeting technical program recordings, and Distinguished and Honorary Lectures. Users can also access GSH/SEG webinar recordings and a library of e-learning courses from the International Human Resources Development Corporation (IHRDC).

To broaden its global reach, SEG has collaborated with CNPC BGP to translate many of these invaluable resources into Mandarin, making them accessible to a broader audience. SEG also manages the technical infrastructure, delivering a seamless and efficient learning experience.

SEG On Demand empowers users to learn anytime, anywhere, from the brightest minds in the field. It provides an affordable, interactive, and user-friendly educational resource. Your contributions make this innovation possible, helping to cultivate the next generation of geophysicists and advance the future of geophysical exploration.

CORPORATE SUPPORTER



OTHER PROGRAMS

BGP Support

The following document captures the Virtual Library content and Chinese Translations that have been supported by the BGP contributions to the foundation.

Suggestions for 2024 Translations

Near-surface scattering in seismic data: from signal to noise and noise to signal	Carlos Calderón-Macías
Full Wave-field Inversion: Journey towards practical applications	Partha Routh
New Frontiers in Full Wave-field Inversion: Journey towards Elastic FWI and direct Use of Raw Seismic Data	Partha Routh
Responding to the global water crisis: A strategy for improving water supply	Paul Bauman
Unlocking the potential of GPR for subsurface characterization by using full-waveform	Anja Klotzsche
The Role of Geohazards Assessment in the Evolving Energy Mix	Agatha Onuwaje
Scientific machine learning in geophysical exploration and monitoring	Umair bin Waheed
How does the thin near surface of the earth produce up to 100 times more noise on land seismic data than on marine data?	Christof Stork
Seismic Acquisition and the Energy Transition	Tim Dean
Applications of fiber-optic sensing to borehole seismology	Ariel Lellouch

2022 Mandarin translations

Ten lectures selected by BGP

Recent advances in seismic reservoir characterization and monitoring by Dr. Ali Tura, 2021 Distinguished Lecturer

Listening to Singapore: Harvesting urban noise for space, water, and hazard mitigation by Elita Li, 2022 Honorary Lecturer, South and East Asia

Modern Rock Physics – Challenges and Solutions by Jack Dvorkin, 2021 Honorary Lecturer, Middle East and Africa

Taking the Power of Exploration Geophysics from the Oil Patch to Help Solve the World's Grand Challenges by John Bradford, 2021 Near Surface Honorary Lecturer

Using near-surface geophysics to estimate soil and rock physical properties, 2022 Honorary Lecturer, Europe

Quantifying the business impact of seismic technology to deepwater exploration by Laura Bandura, 2022 Distinguished Lecturer

Geomechanical issues affecting long-term storage of CO₂ by Mark Zoback 2021 Honorary Lecturer, North America

The new paradigms in seismic inversion by Miguel Bosch, 2021 Honorary Lecturer, Latin America

Present-day crustal stress across spatial scales by Mojtaba Rajabi, 2022 Honorary Lecturer, Pacific South

A watershed moment for critical zone geophysics by Susan Hubbard, 2022 Near Surface Global Lecturer

2019 Mandarin translations

Ten lectures selected by BGP

From Imaging to Inversion by Ian Jones, 2012 SEG Honorary Lecturer, Europe

Getting More for Less: Frequent Low-cost Seismic Monitoring Solutions for Offshore Fields by Paul Hatchel, 2017 SEG Distinguished Lecturer

Marine seismic acquisition: Expanding the possibilities by Sandeep Chandola, 2014 Honorary Lecturer, Pacific South

Pitfalls and Challenges of Seismic Imaging by Evgeny Landa, 2015 SEG Honorary Lecturer Series

Infusing Rock Physics into Seismic Inversion by Michael Kemper, 2016 SEG Honorary Lecturer Series

OTHER PROGRAMS

Integrating well log, seismic, and CSEM data for reservoir by Lucy MacGregor, 2011 Honorary Lecturer, Europe

Multicomponent Seismic Stratigraphy by Bob Hardage, 2009 SEG Honorary Lecturer, North America

The State and future Directions of Prestack Depth Migration by Julian Cabrera, 2011 SEG Honorary Lecturer, Latin America

Imaging the Earth's Near Surface: The Why and How of Applied Geophysics by Doug Oldenburg, 2011 SEG Distinguished Lecturer

Spectral Decomposition and Inversion by Greg Partyka, 2005 SEG Distinguished Lecturer

Recorded virtual courses added to On-Demand (ondemand.seg.org) library

Twenty-eight courses [2020–2023]

2022 Recorded Course - Lithium Exploration and Development ...	Dorey & Hayes
2022 Recorded Course Petrophysics and Geophysics relevant ...	Bill Harbert
2022 Recorded Course - Petrophysics and Geophysics Relevant to Hydrogen (H2) Storage, Monitoring and Utilization	Bill Harbert
2022_Recorded Course_Practical Machine Learning Methods in ...	J Schuster
2022 Recorded Course - Rock Physics for Exploration, ...	Avseth & Johansen
2021 Recorded Course Understanding and Adapting Rock ...	Manika Prasad
2021 Recorded Course - Rock Physics: Seismic Reflections ...	Jack Dvorkin
2022 Recorded Course Seismic Uncertainty Evaluation (SUE) - ...	M. Agarwal
2022 Recorded Course Near-Surface Interferometry - Hanafy	S. Hanafy
2022 Recorded Course Python Programming for Subsurface Data ...	Sid Misra
2022 Recorded Course -Modern Seismic Reservoir ...	L. Thomsen
2022-Recorded Course-Magnetotellurics for Natural ...	K. Christopherson
2022 Recorded Course Effective Scientific Writing	U. Waheed
2021 Recorded - Gravity & Magnetism For Explorationists	M. Ruder
2020 Video Series: Intro to Machine Learning Techniques for ...	Sid Misra
2021 Recorded Course - The Interpreter's Guide to Depth ...	S. MacKay
2021 Recorded Course - The Geology of Unconventional ...	Bruce Hart
2021 Recorded Course - Passive surface wave methods using ...	K. Hayashi
2021 Recorded Course - Geopressure & Prospect's Risk ...	S. Shaker
2021 Recorded Course - AVO: Seismic Lithology - ...	Graul & Hilterman
2021 Recorded Course - A Practical Understanding of Seismic ...	J. Bancroft
2021 Recorded Course - Practical Applications of ...	D. Johnston
2021 Recorded Course - An Introduction to Migration and ...	Ian Jones
2021 Recorded - Synthetic Seismograms Construction & Use	Dhananjay Kumar
2020 3D Seismic Data Acquisition - An Update on Modern ...	M. Lansley

OTHER PROGRAMS

2020 Recorded - Seismic attributes - From Interactive ...	Kurt Marfurt
2020 Recorded - Structural Geology in Seismic Interpretation	S. Mitra
2020 Recorded Course - Machine Learning for Waveforms, ...	Sid Misra

Lectures added to Knowledgette

75 lectures: 8 DL & 47 HL/NS/Sustainability

HONORARY LECTURES RECORDED

2024

Seismic Acquisition and the Energy Transition	Tim Dean – Pacific South
Unconventional Borehole Seismic Techniques	Eduardo Corti – Latin America

2023

The role of geohazards assessment in the evolving energy mix	Agatha Onuwaje - North America
Scientific machine learning in geophysical exploration and monitoring	Umair bin Waheed - Middle East
Surface and borehole seismic monitoring of CO ₂ geological storage	Roman Pevzner - South & East Asia
Mapping pore pressure with beach balls	Leo Eisner - Europe
Digital rock under stress	Maxim Lebedev - Pacific South

2022

Near-surface scattering in seismic data: From signal to noise and noise to signal	Carlos Calderón-Macías – Latin America
Full wave-field inversion: Journey towards practical applications	Partha Routh - North America
Applications of fiber-optic sensing to borehole seismology	Ariel Lellouch - Middle East & Africa
Using near-surface geophysics to estimate soil and rock physical properties	Klaus Holliger - Europe
Present-day crustal stress across spatial scales	Mojtaba Rajabi - Pacific South
Listening to Singapore: Harvesting urban noise for space, water, and hazard mitigation	Elita Li - South & East Asia

2021

The new paradigms in seismic inversion	Miguel Bosch - Latin America
Modern rock physics – Challenges and solutions	Jack Dvorkin - Middle East & Africa
Geomechanical issues affecting long-term storage of CO ₂	Mark Zoback - North America
From multi-component imaging to ocean bottom seismic technology-challenges or opportunities?	Xiaogui Miao - Pacific South
Understanding seismic wave attenuation mechanisms in porous and non-porous media: Some new insights	Nimisha Vedanti - South & East Asia
Seismic technology in northern European waters and the prevalence of multiples	Adriana Citlali Ramírez - Europe

2020

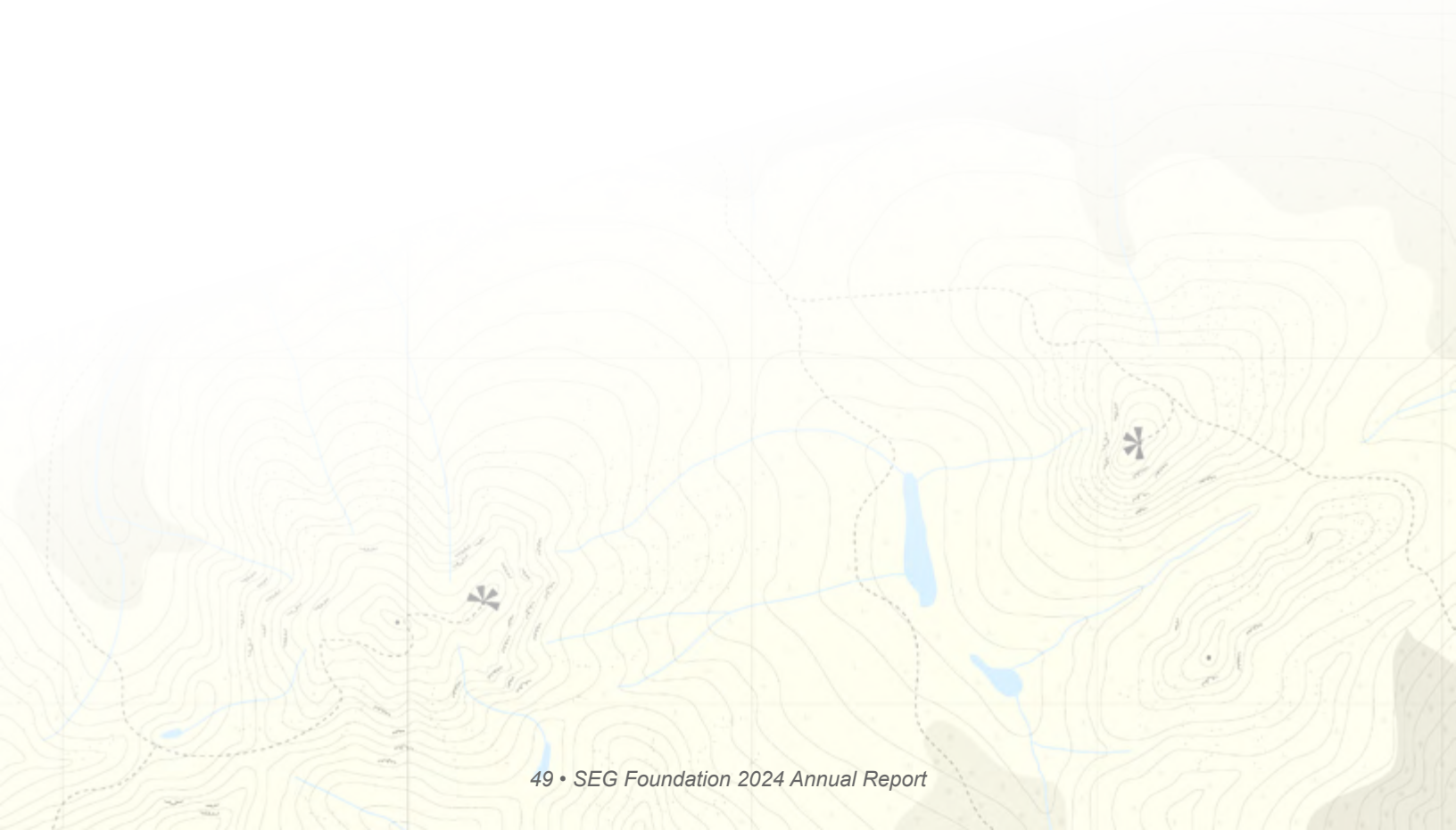
Improving reservoir characterization using four innovative seismic technologies	Saleh Al-Dossary - Middle East & Africa
Environment-friendly exploration using magnetotellurics	Patricia de Lugo – Latin America

OTHER PROGRAMS

Developing a successful career in geophysics today	Anna Shaughnessy - North America
Generalized sampling and gradiometry: Changing the rules of the information game	Johan Robertsson - Europe
Regional to reservoir stress-induced seismic azimuthal anisotropy	Lisa Gavin - Pacific South
Deep learning for seismic processing and interpretation	Xinming Wu - South & East Asia
2019	
Azimuthal P-P seismic measurements: Past, present, and future	Heloise Lynn -North America
De-risking exploration and development with realistic 3D geologic modeling, geophysical seismic simulation, and imaging	Gladys Gonzalez - Latin America
Induced polarization effect in time-domain electromagnetic prospecting, noise or signal?	Hesham El-Kaliouby - Middle East & Africa
Seismic attenuation, dispersion and anisotropy in porous rocks: mechanisms and models	Boris Gurevich - Pacific South
Reservoir characterization for the next generation	Subhashis Mallick - South & East Asia
Wavefront attributes – A tool for processing, imaging, and model building	Dirk Gajewski - Europe
DISTINGUISHED LECTURES	
2024	
How Does the Thin Near Surface of the Earth Produce up to 100 Times More Noise on Land Seismic Data than on Marine Data?	Christof Stork
New frontiers in full wave-field inversion: Journey towards elastic FWI and direct use of raw seismic data	Partha Routh
2022	
Measuring variations in the seismic velocity as a diagnostic of rock damage and healing	Roel Snieder
Quantifying the business impact of seismic technology to deepwater exploration	Laura Bandura
2021	
Recent advances in seismic reservoir characterization and monitoring	Ali Tura
Multi-physics analysis: Extracting the most from diverse datasets	Lucy MacGregor
2020	
Potential and challenges of applying artificial intelligence and machine-learning methods for geoscience	Aria Abubakar
Automating seismic data analysis and interpretation	Sergey Fomel
VIRTUAL NEAR SURFACE GLOBAL LECTURERS	
2023	
Unlocking the potential of GPR for subsurface characterization by using full-waveform inversion	Anja Klotzsche
2022	
A Watershed Moment for Critical Zone Geophysics	Susan Hubbard

OTHER PROGRAMS

2021	
Taking the Power of Exploration Geophysics from the Oil Patch to Help Solve the World's Grand Challenges	John Bradford
2020	
Biogeophysics: Exploring Earth's subsurface biosphere using geophysical approaches	Estella A. Atekwana
2019	
Advancing the use of geophysical methods for sustainable groundwater management	Rosemary Knight
GLOBAL SUSTAINABILITY LECTURERS	
2023	
Responding to the global water crisis: A strategy for improving water supply	Paul Bauman



HISTORICAL PRESERVATION

Historical preservation and the Geophysical Society of Houston: Preserving the Legacy of Geophysics: Past Contributions

In past years, thanks to the generous support of our donors, the SEG Foundation contributed to the Geophysical Society of Houston (GSH) and its Geoscience Center and Museum, helping preserve valuable geophysical artifacts, literature, and historical records. Formed in 1947, GSH forms the heart of the Houston-based geophysical community.

These efforts enabled GSH to build a collection of over 1,700 geoscience instruments, reports, maps, and media, along with the Bob Sheriff Library, which houses more than 2,700 geoscience books, manuals, and periodicals. These resources play a critical role in preserving the rich history of geophysics while educating future generations of geoscientists.

While the SEG Foundation is no longer actively involved in historical preservation efforts, the legacy of these contributions continues to benefit geoscientists, researchers, and the broader community.



DONOR RECOGNITION

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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.

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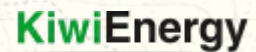
\$2,000,000 to \$2,999,999



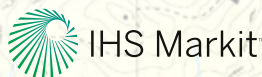
\$1,000,000 to \$1,999,999



\$500,000 to \$999,999



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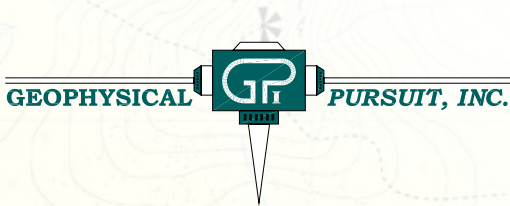
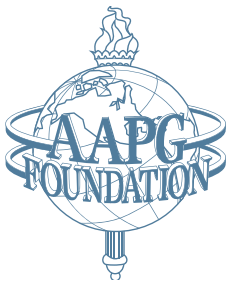


Note: All monetary values are in U.S. dollars.

DONOR RECOGNITION

2024 Corporate and Organization Contributors

The SEG Foundation is proud to introduce a special series of logos recognizing our valued corporate and organizational supporters for 2024. These partners play a vital role in advancing geophysics by supporting student programs, scholarships, humanitarian projects, and groundbreaking research. Their generosity enables us to promote the science, expand its humanitarian impact, and support the next generation of geoscientists. We extend our deepest gratitude to these organizations for their commitment to innovation and education in geophysics.



DONOR RECOGNITION

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A list of donors for the Trustee Associates can be found below

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