



**SOCIETY OF EXPLORATION
— GEOPHYSICISTS —**

2020-2021

**SEG Committee and Task Force
Summaries**

updated 10 December 2020

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SUPPORT PORTFOLIO

Advisory Committee

Chair: Rob Stewart; **Vice chair:** Rick Miller

Staff liaison: Tom Agnew; **Board liaison:** Maurice Nessim

Year committee was established: >20 years ago

Committee's mission: The committee may initiate reports and/or recommendations to the Board on any matter deemed appropriate and provide a similar response to matters submitted to it by the Board. The committee may annually review the progress of the immediately retiring Board and make recommendations to the incoming Board. The committee may act as an ombudsman for a member who is unsatisfied with the actions or decisions of the Board.

Major accomplishments: Advises SEG President and Board on critical issues

Audit Committee

Chair: Maria Angela Capello; **Vice chair:** Kurt Marfurt

Board liaison: Pete Cramer; **Staff liaison:** Carlos De La Garza

Year committee was established: 2008

Committee's mission: The audit committee's mission includes, but is not limited to, providing an open avenue of communication among the independent auditors, staff and Board; Reviewing and assessing the compliance of policies and procedures, internal controls regarding finance and accounting and legal compliance and ethics the Board has established.

Major accomplishments: Ensures the accuracy and timeliness of the Society's consolidated audited financials and makes recommendations to the format to ensure a better user experience and making the information more accessible. The committee also makes sure SEG meets the legal requirements set forth by the IRS in filing the Form 990 and related tax reports.

Bylaws Committee

Chair: Edith Miller

Board liaison: Rick Miller; **Staff liaisons:** Ted Bakamjian, Mandi Duckworth
(alternate)

Year committee was established: >20 years ago

Committee's mission: Ensure SEG Bylaws clearly state the established rules of the Society and that Bylaws of Sections/Associated Societies (SAS) and Student Sections conform to these rules. Review all proposals from the membership and Board that require amendments to the Bylaws. Review new or amended bylaws of Sections/Associated Societies and Student Chapters

Major accomplishments: Review of new SAS documents in advance of presentation to the Board for approval. Review and recommendations regarding several SEG Bylaws amendments over the past several years, although none in 2019–2020

Committee on Nominations

Chair: Tad Smith; **Vice chair:** Sherif Hanafy

Board liaison: Tad Smith; **Staff liaison:** Mandi Duckworth

Year committee was established: >20 years ago

Committee's mission: Nominate candidates from among the Active Members of the Society in good standing willing to serve on the SEG Board of Directors and to fill District Representative vacancies.

Major accomplishments: Continue to evaluate the current SEG member demographic and select candidates that are not only well qualified but represent the entire SEG membership.

Compensation Committee

Chair: Maurice Nessim; **Vice chair:** Anna Shaughnessy

Board liaison: Anna Shaughnessy; **Staff liaison:** Angela Paulsen

Year committee was established: 2009

Committee's mission: To ensure the SEG Executive Director is compensated in a manner that takes into account current market data, benchmark data from other nonprofit societies and performance against mutually established goals.

Major accomplishments: Have made swift and difficult decisions regarding the status of SEG's Executive Director.

Finance Committee

Chair: Dan Ebrom

Board liaison: Pete Cramer; **Staff liaison:** Carlos De La Garza

Year committee was established: >20 years ago

Committee's mission: Monitor the financial activities of SEG and its consolidated subsidiaries with the goal of providing accurate, timely information to make fiscally responsible decisions that allow SEG to maintain and expand relevant products and services to its members.

Major accomplishments: Improvements to processes to increase visibility and sustainability of resources include creating an investment policy that reflects the goals and desired outcomes of the membership; creating a cash reserves policy; a new reporting model of revenue streams into Portfolios; and ensured more timely reporting on a monthly basis. In this era of uncertainty the Finance Committee will continue to strive to provide accurate and timely information, with a view to what the future can hold for the Society.

Honors and Awards Committee

Chair: John Bradford; **Vice chair:** Bill Abriel

Board liaison: Rick Miller; **Staff liaison:** Mandi Duckworth

Year committee was established: >20 years ago

Committee's mission: Recommend to the Board candidates for all established honors and awards of the Society and for election to Honorary Membership.

Major accomplishments: The committee continues to solicit and select nominees for deserving recipients to be honored at the SEG Annual Meeting. For the first time in 2020 the ceremony was a virtual event and available to be viewed publicly.

Strategy and Planning Committee

Chair: Anna Shaughnessy

Board liaison: Anna Shaughnessy; **Staff liaison:** Tom Agnew

Year committee was established: 2018

Committee's mission: The SPC is an advisory group that shares responsibilities with the SEG staff in executing the strategy set by the Board. Its primary function is to assist the SEG Board of Directors in fulfilling its responsibilities by: (1) advising on the design and periodic update of a streamlined organization of SEG business units to increase effectiveness and capability to engage others in assisting the organization moving forward; (2) helping to deliver business-related plans and recommendations; and (3) working with SEG business units, the Finance Committee, and the executive staff to inform and recommend an annual SEG program and budget.

Major accomplishments: Committee is just getting underway, looking at sustainability and SEG's future relevancy.

MEETINGS PORTFOLIO

Annual Meeting Steering Committee

Chair: Julie Shemata; **Vice chair:** Sue Jackson

Board liaison: Rick Miller; **Staff liaison:** Jenny Cole

Year committee was established: 2018

Committee's mission: The mission of the Annual Meeting Steering Committee is to provide a forum for the dissemination of technical and professional information through the presentation of papers in the technical program, ancillary education events, and the exhibition showcasing innovative equipment, techniques, and applications.

Major accomplishments: From the SEG20 Annual Meeting Steering Committee

- First-ever all-virtual SEG Annual Meeting and International Exhibition.
- The annual event theme “Shifting Gears in the Digital Speedway” could not capture better the transformational process that all stakeholders experienced by shifting the plan 6 months before the event, from an in-person event, then into a hybrid event, to finally deliver a full-virtual event (experimenting with a new virtual playbook).

Annual Meeting Steering Committee (continued)

- 115 Technical Program sessions with more than 750 presentations, 4 Business of Applied Geophysics sessions, 20 Postconvention Workshops.
- 82 companies, including all service majors, participated in the first all-virtual exhibition.
- Innovative panels on Geophysics workforce of the future, Sustainability Challenges for the Geosciences, and Planetary Geophysics.
- All content available one month after the meeting (until 13 November 2020).
- Around 4000 registered attendees.
- Capitalizing on the lessons learnt from SEG20 will enable future hybrid and full-virtual SEG events, globally.

Meetings Review and Planning Committee

Chair: Jose Arce; **Vice chair:** TBA

Board liaison: Rick Miller; **Staff liaison:** Kristi Casey

Year committee was established: 2005

Committee's mission: The primary mission of the SEG Meeting Review and Planning Committee (MRPC) is to provide to the SEG Board of Directors and SEG staff, member-driven advice for all proposed meetings that request in-kind or financial support of the SEG. An additional purpose is to provide all geographic and professional segments of the SEG membership a communication and influence link into SEG's meeting calendar.

Major accomplishments: In 2020 committee members were more active and had a higher participation rate in monthly voting than in 2019. Vice Chair position was added to the committee to create a succession plan. The monthly voting system is very smooth and has improved over the last year with online voting available from any location. (7) Promoted, (5) Partnered and (9) Operated events both in person and virtual have been reviewed, discussed and approved over the last year.

PUBLICATIONS PORTFOLIO

Books Editorial Board

Chair: Lianjie Huang

Board liaison: Baishali Roy; **Staff liaison:** Susan Stamm

Year committee was established: 2016 (formerly Publications Committee)

Committee's mission: The Books Editorial Board solicits and considers applied-geophysics proposals and manuscripts from authors and editors, weighing both the technical merits and marketability when judging whether to encourage development into SEG books and other special publications. Board Members also act as Managing Editors for approved proposals.

Major accomplishments: In 2020, four new titles have been published and two more will be released by year-end. To date, six titles are in process for publication in 2021.

GEOPHYSICS Editorial Board

Editor-in-Chief: Jeffrey Shragge; **Senior Assistant Editor:** John Etgen

Board liaison: Baishali Roy; **Staff liaison:** Jennifer Cobb; **Alternate:** Ted Bakamjian

Year committee was established: 1936

Committee's mission: Review and approve papers for publication in SEG's flagship journal; set policies and workflow for these journal practices

Major accomplishments: Review a record number of submissions to the journal; receive second-highest impact factor in the journal's history, for 2019 (just below 2018 record); shorten turnaround time; organize several special sections and publish a large one on machine learning; gain approval to establish senior assistant editor position to ease EIC burden and determine an EIC successor longer before transition.

Interpretation Editorial Board

Editor-in-Chief: Balazs Nemeth; **Deputy Editor:** Kurt Marfurt

Board liaison: Baishali Roy; **Staff liaison:** Jennifer Cobb; **Alternate:** Ted Bakamjian

Year committee was established: 2012

Committee's mission: Review and approve papers for publication the SEG-AAPG journal operated by SEG; set policies and workflow for these journal practices

Major accomplishments: Review a record number of submissions to the journal; receive highest impact factor in the journal's history, for 2019; publish the largest journal issue in SEG history (87 papers in November 2020, eclipsing highest-ever total for Geophysics).

Publications Committee

Chair: Sergey Fomel

Board liaison: Baishali Roy; **Staff liaisons:** Ted Bakamjian

Alternate Staff Liaisons: Jennifer Cobb, Jeno Mavzer

Year committee was established: 2006 (Previously named Publications Policy Committee)

Committee's mission: The SEG Publications Committee addresses a range of policy issues that fall outside the sole focus of any other SEG publications-related board or committee or involve more than one such committee. It focuses on strategic and marketplace issues such as publications access, member benefits, pricing, ethics, peer review, author requirements, infrastructure, best practices, portfolio finances, portfolio changes (e.g., new journals), intellectual property rights, intrasociety and intersociety publishing initiatives, and questions of commercialism and conflicts of interest in publications. The committee establishes policy, takes action on matters delegated to it and other publications matters that don't require SEG Board of Directors approval, and recommends policy and action to the SEG Board as necessary.

Publications Committee (continued)

Major accomplishments, 2019–2020: The committee had an active year regarding publications policy matters, updating SEG’s preprints policy and punitive-action guidelines related to ethical issues, adding the Society as a signatory to the San Francisco Declaration on Research Assessments (DORA), and establishing a corrections and retractions policy. All were approved by the SEG Board of Directors.

The committee also endorsed a statement submitted in its name to the White House Office of Science and Technology Policy in response to the OSTP request for comment on its draft policy calling for immediate open access to articles reporting on federally funded research. The statement included a request that the OSTP keep current embargoes in place and take no action before fully studying the impact that financially unsupported open access would have on non-profit scholarly publishing sustainability.

Early in this year, the committee reviewed and approved a proposal to participate alongside six other geoscience publishers in a GeoScienceWorld-operated open-access journal. GSW acquired the journal *Lithosphere* from the Geological Society of America and began operating it with SEG support earlier this year.

Reviews Committee

Chair: William Green

Board liaison: Baishali Roy; **Staff liaison:** Kelsy Taylor

Year committee was established: >20 years ago

Committee's mission: Our mission is to keep SEG members informed about the latest publications relevant to their profession. The publications cover technical aspects of applied geophysics and the role of geosciences in the modern world.

Major accomplishments: The committee has contributed excellent reviews of books and provided practical suggestions to help members decide which books to acquire for their professional libraries. It has also broadened the scope of published reviews by soliciting books on new fields.

Technical Standards Committee

Chair: Shawn New; **Vice Chair:** Victor Ancira

Board liaison: Baishali Roy; **Staff liaisons:** Ted Bakamjian, Jennifer Cobb (alternate)

Year committee was established: >30 years ago

Committee's mission: The Technical Standards Committee serves as a forum for discussion of geophysical developments in which standards need to be defined. When problems of sufficient magnitude to warrant action by SEG are identified, an appropriate subcommittee is appointed to develop a set of standards and make a recommendation to the Board concerning their adoption.

Major accomplishments, 2019–2020: The committee worked on minor changes to SEG-Y_r2.0 and began discussions on a major update to the standard. The committee also explored whether SEG-D and SEG-Y were suitable for use in the cloud. The committee also started exploration into developing a closer relationship with OSDU.

TLE Editorial Board

Chair: Yongyi Li

Board liaison: Baishali Roy; **Staff liaison:** Steve Brown

Year committee was established: 1982

Committee's mission: To provide timely dissemination of information likely to interest the SEG membership, and serve as an important vehicle for the exchange and promotion of leading-edge technical information of exploration and applied geophysics and Society news.

Major accomplishments:

- The TLE Editorial Board has successfully organized and handled the monthly special sections, as well as standalone technical articles to complement the monthly special sections.
- The Editorial Board has successfully selected and recommended the annual Best Paper, as well as the annual honorable mention papers, to the SEG Board of Directors.

TLE Editorial Board (continued)

Major accomplishments:

- The Editorial Board has expanded from seven members to eight members, with plans to add a ninth this year.
- The Editorial Board continuously ensures the submitted technical articles do not violate the laws and regulations of technical publication and the Society policies. The Editorial Board has participated in reviewing special technical articles such as "The Geophysical Sustainability Atlas: Mapping geophysics to the 17 U.N. Sustainable Development Goals"
- The Editorial Board is actively communicating with the SEG technical committees with a new initiation with the Research Committee for publishing a series of articles on the new development of applied geophysics.
- The Editorial Board is actively communicating with other societies such as AGU, SPE, and EEGS.

Translations Committee

Chair: Lucia Torrado; **Vice chair:** Olga Nedorub

Board liaison: Baishali Roy; **Staff liaison:** Susan Stamm

Year committee was established: >20 years ago

Committee's mission: The SEG Translations Committee reviews applied geophysics books and articles published globally and recommends published materials deemed to be of sufficient interest to the general membership to warrant translation and publication either in SEG journals or as an SEG special publication. The committee historically has focused on translations into English but has expanded its role to consider translations of works into other languages as well.

Major accomplishments: Organizing 70+ volunteers across six countries, the Spanish translation of the 6777 terms in Sheriff's *Encyclopedic Dictionary of Applied Geophysics* was completed. Translation of Sheriff's *Dictionary* into Mandarin, Chinese, and Russian is on-going. Publication in English from Russian of *Numerical Modeling of Seismic Responses from Fractured Reservoirs by the Grid-characteristic Method* has been completed and additional projects are under consideration.

PROFESSIONAL DEVELOPMENT PORTFOLIO

Continuing Education Committee

Chair: Roy Malcolm Lansley; **Vice-chair:** K John Fernando

Board liaison: David Lumley; **Staff liaison:** Cheryl Jackson

Year committee was established: >20 years ago

Committee's mission: To provide educational resources to our global membership and to others interested in Geophysics through courses taught by recognized experts. Stimulate professional interest in theoretical and applied Geophysics, direct career development, and expand technical horizons by:

- providing training in basic, intermediate, and advanced skills
- providing advanced curriculum topics in geophysical techniques
- increasing networking opportunities and interaction between participants and experts
- supporting accepted practices

The Committee reviews and approves courses, discusses topics of interest to develop into courses, and provides input to the Board on the education of the membership.

Continuing Education Committee (continued)

Major accomplishments:

Goal #1: Convert face-to-face courses to virtual platforms

To date, converted 20 courses into virtual platforms

- Supported URTeC with two virtual courses
- Completed three virtual courses for the KL regional office with a 4th scheduled in mid-Nov.
- Will add 7 course recordings to SEG On Demand by 31 December.

Goal #2: Develop virtual contract course platforms

- Completed four virtual contract courses for BOEM and Petronas
- Two remaining virtual courses scheduled for Saudi Aramco

Goal #3 : Successfully create virtual platforms for previously scheduled face-to-face AM courses

- Completed four of nine virtual courses framed before and after the Annual Meeting

Goal #4: Conduct wall to wall review and update of the entire CE curriculum

- CE subcommittee is currently reviewing summary of responses to the Course Catalog Survey sent out in July. Catalog will be updated at the sub-committee's recommendation.

Distinguished Instructor Short Course Subcommittee

Chair: Adel Hassan El- Emam; **Vice-chair:** Adriana Ramirez

Board liaison: David Lumley; **Staff liaison:** Melissa Presson

Year committee was established: >20 years ago

Committee's mission: To provide for an annual one-day short course on a topic of popular interest and at a nominal cost to the SEG membership. This course will be given to selected SEG Sections worldwide (where the word "Sections" is used, it includes Associated Societies and Student Chapters) and should be seen as a celebration of excellence in geophysics and education. The position of instructor should be viewed as a major honor and recognition of excellence by the Society and the course itself should be viewed as a valuable service to the membership.

Major accomplishments: (1) Positive conclusion of 2019 DISC tour despite significant obstacles, (2) Successfully hosting Dave Monk's 1st virtual DISC at the AM with nearly 60 attendees, and (3) In the face of COVID, adaptively establishing a new tour schedule beginning from Annual Meeting to Annual Meeting.

Distinguished Lecturer Committee

Chair: Rocco Detomo Jr. (Rocky); **Vice chair:** To be appointed in early 2021

Board liaison: Tad Smith; **Staff liaison:** Mallory Trumbore

Year committee was established: >20 years ago

Committee's mission: The DL Committee is responsible for the Society's Lecture Programs, including the SEG Distinguished Lecture Program, the SEG Honorary Lecture Program, and the Near-Surface Global Lecture Program.

Major accomplishments: The DL Committee has a long-standing tradition of advancing the field of geophysics by providing high-quality traveling lectures around the globe. Recently, all three programs have successfully adapted to a virtual format.

EVOLVE Technical Committee

Chair: Jennifer Thompson; **Vice chair:** TBA

Board liaison: David Lumley; **Staff liaison:** Kathryn Elkins

Year committee was established: 2017

Committee's mission: The mission of the SEG EVOLVE Technical Committee is fostering multidisciplinary teamwork with geoscientists and engineers to develop world-class professionals through student experiential learning with universities around the world. Through advanced software, training, and mentorship, students learn the technical and professional workflows and skillsets required to compete in the global energy marketplace for investment opportunities. EVOLVE stands for E&P Value Creation using Online Collaboration and Leading Edge Technologies for Virtual Internships with Extensive Mentoring.

Major accomplishments: Evaluated applications for EVOLVE participant teams for 2017-2020 and provided technical expertise to help guide the program, ensuring quality of the educational experience.

COMMUNITY ENGAGEMENT PORTFOLIO

Emerging Professionals International Committee

Chair: Aurelian Roeser; **Vice Chair:** TBA

Board liaison: David Lumley; **Staff liaison:** Kathryn Elkins

Year committee was established: 2014

Committee's mission: Promote a sense of belonging and volunteer engagement for early career geoscientists. Be a catalyst for transition from associate to active membership and to the assumption of leadership roles, which shape the SEG. The committee will focus on global services for all members that are in their first eight years of employment after graduation from a university.

Major accomplishments: A few members have joined local/regional societies acting as EPIC representatives (Houston and Midland). Not much activity for the year.

Community Content Committee

Chair: TBA; **Vice chair:** TBA

Board liaison: Baishali Roy; **Staff liaison:** Susan Stamm

Year committee was established: 2020 (Previously Wiki Committee formed in 2014)

Committee's mission: Previously named the Wiki Committee, in 2020 the SEG Board approved a new name and expanded charter. The Community Content Committee will focus on community engagement, content generation, and the strategic direction for SEG user-generated content programs. Programs include the SEG Wiki, Seismic Soundoff (SEG's podcast), and potentially an SEG blog. The committee also will support SEG's social-media outreach (via Facebook, Twitter, LinkedIn) by sharing social-media posts and helping generate content for sharing from volunteers.

Major accomplishments: Launched in 2016, Seismic Soundoff now releases three episodes per month. A quality and consistency review of the Spanish translation of Sheriff's *Encyclopedic Dictionary of Applied Geophysics*, housed in the Wiki, should be completed by year-end.

Membership Committee

Chair: Michel Verliac; **Vice chair:** Pamela Terekhova

Board liaison: Maria Angela Capello; **Staff liaison:** Johnna Yoder

Year committee was established: >20 years ago

Committee's mission: The SEG Membership Committee provides strategic guidance to retain and grow an actively engaged membership.

Major accomplishments: ENHANCED DUES WAIVER PROGRAM: There are currently 129 SEG members who have taken advantage of the Dues Waiver Program for the 2020 membership cycle.

NEW AND RETURNING MEMBERS: The Committee is exploring which countries are attracting the most new members to SEG. EXPANDED COMMITTEE: The 2020/2021 Membership Committee is expanding to include at least two members from each of SEG's 12 Districts and at least one member whose nationality is from each of the 19 countries where there are least 100 paid SEG members.

Women's Network Committee

Chair: Ellie Ardakani

Board liaison: Maria Angela Capello; **Staff liaison:** Shelly Jo Oakley

Year committee was established: 2011

Committee's mission: Create and sustain a professional women's network including female students to promote greater female engagement in SEG activities, create a community for mutual support among female SEG members, to enhance recruiting of women to the profession and to improve retention of women in the industry.

Major accomplishments:

- We prepared and presented the "Inclusion Exhibit" to the SEG board which had an influential effect in the assembly of the Inclusion & Diversity task force.
- We reduced the number of social media channels with the hope that it will be easier to maintain and grow our audience

Women's Network Committee (continued)

- We organized a Panel Discussion Event for SEG AM 2020 with more than 400 registrants
- We organized monthly WNC webinars (hard and soft skills) with on average 200 attendees
- We established a “Resume Review” program to help students, emerging professionals, and members in transition
- We increase students’ involvement with WNC activities under student chapters
- We initiated a “Quarterly newsletter” exclusive to WNC members
- We participated in Science-A-Thon to raise funds for social good

STUDENTS & EARLY CAREER PROGRAMS PORTFOLIO

Committee on University and Student Programs

Chair: Joan Marie Blanco; **Vice chair:** TBA

Board liaison: Brandy Hawkins; **Staff liaison:** Linda Ford

Year committee was established: Student Section/Academic Liaison Committee became Committee on University and Student Programs in 2008; unclear when SS/AL Committee was formed.

Committee's mission: To support students, universities and industry in developing a strong global pool of graduating students and emerging professionals with the technical and professional skill sets required to meet the global applied geophysics needs of society.

Major accomplishments: Restructured in 2019 to activate the committee to help better connect with student chapters on a regional level. Created a series of webinars to better inform student chapters about SEG programs and issues of interest in applied geophysics. Managed reporting/application process for the Student Chapter Excellence program.

Field Camp Committee

Chair: Francesca Fazzari

Board liaison: Brandi Hawkins; **Staff liaison:** Kathryn Elkins

Year committee was established: 1993

Committee's mission: Field Camp Committee evaluates applications and awards grants to eligible applicants, ensuring that geophysics students around the world receive valuable field training in contexts that emphasize safety and high quality learning.

Major accomplishments: In 2020, SEG received 36 applications for funding, a 20% increase from 2019. The total funding requested was US\$445,375. From the submitted applications, the Field Camp Committee selected 16 to receive awards totaling US\$124,443, with values ranging from \$3,300 to \$16,000.

Scholarship Committee

Chair: Esther Babcock; **Vice chair:** Lorie Bear

Board liaison: Brandy Hawkins; **Staff liaison:** Mallory Trumbore

Year committee was established: >20 years ago

Committee's mission: The committee shall review, rate, and rank all qualified scholarship applications based on available funds and donor restrictions. The committee members will select the scholarship recipients, and will serve as advisors to the recipients during the scholarship year.

Major accomplishments: Since 1956, the Scholarships Committee has continued to foster the next generation of geoscientists by awarding over USD\$10.5 million dollars in scholarship funds to approximately 3,000 unique recipients.

Travel Grant Committee

Chair: Tyler Schwenk

Board liaison: Brandi Hawkins; **Staff liaison:** Kathryn Elkins

Year committee was established: 2007

Committee's mission: The committee shall review applications, rate, and rank all qualified Travel Grant applications based on available funds and donor restrictions. The committee will select the Travel Grant Award recipients and document the process and selection as support to the payment of awards.

Major accomplishments: Due to COVID, no grants were provided for travel, however over 120 Annual Meeting registration grants were provided for students with SLS, EVOLVE, the Technical program.

BUSINESS DEVELOPMENT & EXPANDING MARKETS PORTFOLIO

AGU/SEG Cooperation Committee

Chair: Dale Bird (SEG); **Co-Chair:** Kisa Mwayamala (AGU)

Board liaison: David Lumley; **Staff liaison:** Laurie Whitesell

Year committee was established: 2011

Committee's mission: Develop collaborative opportunities between AGU and SEG.

Major accomplishments: Annual joint workshops, joint special section in Geophysics on hydrogeophysics, and joint technical sessions at each other's annual meetings.

Committee for Passive Seismology

Chair: Ulrich Zimmer

Board liaison: Gustavo Carstens; **Staff liaison:** Annabella Betancourt

Year committee was established: 2015

Committee's mission: The mission of the Committee for Passive Seismology is to connect, inspire and guide the scientific development and application of passive seismology and its engineering utility.

Development and Production Committee

Chair: Marianne Rauch; **Vice chair:** TBD

Board liaison: Maria Angela Capello, **Staff liaison:** Steve Brown

Year committee was established: >20 years ago

Committee's mission: To promote the transfer of applied technology involved in producing or developing oil and gas reservoirs to geoscientists and engineers.

Major accomplishments:

Co-host with SEG ORGC for 'Booking P1-3 Oil and Gas Reserves Using Geophysical Data' workshop at the 2020 SEG AM which involved 6 speakers including the SPE-ORGC Chair.

Host committee for the '4D Under Complex Overburden: Are we there yet?'

Workshop at the 2020 SEG AM with 8 presentations from industry and academia.

Geoscientists Without Borders Program Committee

Chair: Robert Merrill, Interim; **Vice chair:** Cengiz Esmersoy

Board liaison: David Lumley; **Staff liaison:** Linda Ford/Pallavi Bhardwaj

Year committee was established: 2008

Committee's mission: The Geoscientists Without Borders Program Committee is a professional network of volunteers responsible for the growth and success of the GWB program. It's primary goal is to support humanitarian applications of geosciences around the world.

Major accomplishments: Awarded 45 projects in 31 countries since the program began in 2008.

Established an Advisory Task Force to create a 3- to 5-year business plan to be completed by March 2021. Enhanced application and reporting processes to ensure better oversight of the program and greater project success and sustainability.

Gravity and Magnetics Committee

Chair: Irina Filina; **Vice chair:** Marianne Rauch

Board liaison: Scott Singleton; **Staff liaison:** Steve Brown

Year committee was established: >20 years ago

Committee's mission: To promote the use of gravity and magnetic methods in applied geophysics.

Major accomplishments: (1) Gravity and magnetics technical sessions at 2020 Annual Meeting featured one oral and two poster sessions. (2) Committee organized and hosted a very successful and well-attended luncheon keynote on geophysical exploration of Mars for the 2020 SEG virtual Annual Meeting. (3) Committee co-organized the 2020 postconvention workshop with the Mining Committee focused on machine learning, which was well attended. (4) Committee continues to coordinate The Meter Reader technical department in TLE and has had two papers published with one more in process. (5) The Committee helped organize a special section on Integrated geophysical imaging for Interpretation's November 2020 issue.

Health, Safety, Security, and Environment Committee

Chair: Luke Decker; **Vice-chair:** Sharon Teebenny

Board liaison: Gustavo Carstens; **Staff liaison:** John Meade

Year committee was established: 2013

Committee's mission: The SEG Health, Safety, Security, and Environment (HSSE) Committee helps ensure that HSSE is taken into consideration for any activities that the SEG manages or sponsors. The Committee will not duplicate the work that the International Association of Geophysical Contractors (IAGC) and International Association of Oil & Gas Producers (IOGP) do with HSSE for geophysical operations but rather compliment it, and utilize wherever possible industry guidance developed already.

Major accomplishments:

- Collaborated with Field Camp Committee to strengthen and improve HSSE plans to include the development of a Threat Assessment Matrix.

Health, Safety, Security, and Environment Committee (continued)

- Peer-reviewed Field Camp Proposal HSSE plans and evaluated based on their strength. Provided constructive feedback to the submitters of field camp HSSE plans to let them know where there was room for improvement. Were able to help identify field camp proposals that though technically strong had some shortcomings in their HSSE plans, provided feedback to those planners, and enabled them to resubmit their plans and receive travel grant funding
- Assisted the Annual Meeting Steering Committee in determining the viability of a face-to-face event in the face of COVID19 threats and risks, committee member Huw James worked with the Steering Committee to assist with planning for threat and hazard mitigation in the event the Annual Meeting was able to go ahead as an in-person event
 - The Committee's assessment that the event could not be safely held contributed to the decision to revert to a virtual model
- Worked on guidance documents for international travel by SEG members, for the US and non-US citizens.

Machine Learning Committee

Chair: Bob Clapp; **Vice Chair/Technical Program Chair:** Mauricio Araya

Board liaison: Scott Singleton; **Staff liaison:** Ted Bakamjian

Year committee was established: 2020

Committee's mission: The committee advises the SEG Board of Directors on matters involving machine learning applied to geoscience problems and organizes events that advance the application of machine learning to geophysics.

Major accomplishments, 2019–2020: The committee transitioned from a Task Force led by Chris Liner to full committee status, with procedures approved by the Board in October 2020. Prior to formal establishment as a committee, members were among leaders in building the portion of the Annual Meeting technical program related to machine learning and in establishing a GitHub site for code development.

Mining Committee

Chair: Glenn Chubak; **Vice Chair:** Sarah Devriese

Technical Program Chair: Jiajia Sun

Board liaison: Kurt Marfurt; **Staff liaisons:** Ted Bakamjian, Jennifer Cobb (alternate)

Year committee was established: >20 years ago

Committee's mission: Advises the Board on all matters involving mining exploration and organizes events that advance the application of geophysics to mining.

Major accomplishments, 2019–2020: The committee organized two technical sessions during SEG20. It also organized a Mining Keynote presented by Michael T. Thorpe, NASA postdoctoral fellow working at both NASA Johnson Space Center and the Department of Earth, Environmental, and Planetary Sciences at Rice University. Thorpe's talk was titled: "Mining for Clays on Mars; Lessons Learned for Sediments on Earth."

Research Committee

Chair: Sergio Chávez-Pérez; **Vice chair:** TBD

Board liaison: Sherif Hanafy; **Staff liaison:** Jenny Cole

Year committee was established: 1954

Committee's mission: The purpose of the committee is to improve communication among earth scientists interested in applied research, promote the advancement of science and technology in the applied geoscience community, and disseminate information on advances in exploration and exploitation geophysics.

Major accomplishments:

- The Leading Edge Research Committee Update began publication in May 2020. Three have been published so far. One more is coming in the November issue, and three more pending publication.
- Recent Podcast: <https://seg.org/podcast/Post/9063/Episode-84-An-Insider-s-Look-at-the-SEG-Research-Committee> - Seismic Soundoff in - depth conversations, Episode 84: An Insider's Look at the SEG Research Committee
- SEG20 Postconvention Workshops sponsored by the Research Committee
 - 3 were cancelled and may be proposed to be held at SEG21.
 - 15 worked out nicely with great attendance.

SEG/NGWA Collaboration Committee

Chair: Rob Jacob (SEG); **Co-Chair:** Bill Alley (NGWA)

Board liaison: Tad Smith; **Staff liaisons:** Laurie Whitesell

Year committee was established: 2017

Committee's mission: Build collaborative opportunities

Major accomplishments: Joint events at annual meetings

Oil and Gas Reserves Committee

Chair: Richard Xu

Board liaison: Maria Angela Capello; **Staff liaisons:** Annabella Betancourt

Year committee was established: 2008

Committee's mission: The mission of the Oil and Gas Reserves Committee (OGRC) is to represent SEG as a society as well as its member companies and member individuals, to promote and assure the geophysical technologies and techniques to be utilized effectively and reliably in the process of oil and gas reserves and resources assessment for the entities at all levels.

Major accomplishments: Drafted committee policies and procedures for Board approval in July 2020.

TASK FORCES

Annual Meeting Task Force

Chair: TBD

Board liaison: TBD; **Staff liaison:** TBD

Year task force was established: 2020

Committee's mission: Investigate ways to minimize the fiscal risk while maximizing both return on investment and value to the membership, at the same time looking for ways to modernize the platform and delivery system. Devise plans/proposals for improving upon how our profession engages the science and builds effective networks through SEG's AM.

Major accomplishments: Divided its focus on evaluating a physical, hybrid, and virtual option for the 2020 Annual Meeting. A survey was sent to SEG Members in an attempt to get feedback on the perception of a virtual meeting or components. Evaluated and recommended moving forward with a virtual component and eventually recommended a fully virtual Annual Meeting. Recommended Board approve relocation of the SEG22 Annual Meeting from Dallas, TX to San Antonio, TX.

Climate Change Task Force

Chair: John Bradford

Board liaison: n/a; **Staff liaison:** n/a

Year task force was established: 2020

Committee's mission: Review SEG's current statement on climate change and recommend leaving it as-is or draft a new one for Board approval.

Major accomplishments: Begun a new draft statement that will explicitly acknowledge climate change science with citations, recognize the need for urgent action, acknowledge efforts of the industry, and delineate how applied geophysics can help understand the challenge and specify actions that geophysicists can take.

Digital Transformation Task Force

Chair: Bill Abriel

Board liaison: Rick Miller; **Staff liaison:** Linda Ford

Year committee was established: 2020

Committee's mission: Examine and evolve our business model to more efficiently and readily accommodate the needs of our current members, sponsors, and exhibitors, not to mention a host of potential new users. We need to find innovative delivery systems for SEG resources and services ideally suited for this rapidly evolving environment, this new space, dubbed the 'new normal'--we need a digital transformation in SEG's business model.

Major accomplishments:

Defined and described the 4 major market zones in which SEG adds value (Knowledge, service sector, community, technology development. Identified the major job functions and major personas of the SEG ecosystem - passed to marketing. Defined and framed the software infrastructure for a virtual SEG business. Inventoried the diverse and unconnected software options for populating a virtual SEG

Equity in Process Task Force

Chair: Anna Shaughnessy

Board liaison: Anna Shaughnessy; **Staff liaison:** Linda Ford, Shelley Oakley

Year committee was established: 2020

Committee's mission: Tasked to do a deep dive into policies, procedures, and bylaws; rooting out any process or activity with bias or that cultivate a culture of inequality (racism, bigotry, or discrimination) in any form. This presidential task force will provide recommendations to the Board for effecting change that will realign the culture of SEG in any area bias is identified or perceived.

Major accomplishments:

Reviewed the SEG Policies and Procedures Manual and identified sections where D&I language needs to be included, processes need to be clarified, language too US Centric, and editorial fixes. Current work includes finalizing an over-arching preamble for the Policies and Procedures and designing guidelines for selection processes.

TECHNICAL SECTIONS

Near-Surface Technical Section

Chair: Cathy Truffert; **Chair-elect:** Erika Gasperikov

Board liaison: Tad Smith; **Staff liaison:** Laurie Whitesell

Year committee was established: 2015

Committee's mission: Vision Statement: The SEG's Near-Surface Geophysics Technical Section is the leading community for applied near-surface geophysicists, as measured through its offerings of professional development, its innovative research on the methods and theory behind near-surface geophysics, and in applying these to evolving societal needs. Mission Statement: Dedicated to advancing applied geophysics in the near surface that benefits society and the environment; to fostering interaction and collaboration among both professionals and academics worldwide; and to maintaining the highest degree of integrity, professionalism, and competence among its members.

Major accomplishments: Membership growth, several workshops, increased activity at SEG AM, webinars, collaboration with other societies such as American Society of Civil Engineers.