

Society of Exploration Geophysicists



2001 Annual Report

2001 Annual Report of the Society of Exploration Geophysicists

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Executive Committee Reports

Sally G. Zinke, President

The 2000-2001 year has been a busy one for the Society of Exploration Geophysicists.

Meetings and Functions

The organization's worldwide meeting schedule continues to expand as we provide more personal contact with our members. The meetings this year have included the SEG Annual Meeting in Calgary; the Student Expo in Houston; an SEG/EAGE Summer Research Workshop in Boise, Idaho; a multisociety joint meeting in Bali; Villahermosa 2000 in Mexico; Third Azerbaijan International Conference in Baku, Azerbaijan; an SEG/SPG Symposium in Shenzhen, China; the AGU Meeting in San Francisco; an SEG Japan Symposium in Tokyo; the IAGC Annual Meeting in Houston; the EAGE Annual Meeting in Amsterdam; the AAPG Annual Meeting in Denver; the SPE Annual Meeting in Dallas; the SAGEEP Conference in Denver; the SEG-GSH Spring Symposium in Houston; the SEG Development and Production Forum in Taos, New Mexico; a joint meeting with AAPG in St. Petersburg, Russia; a Summer Research Workshop in Newport Beach, California; the ASEG in Brisbane, Australia; and culminating the year, the SEG Annual Meeting in San Antonio.

In addition, there have been a large number of regional meetings, special focus meetings, Continuing Education programs, Distinguished Lecturer presentations, and the Distinguished Instructor Short Course programs. These events have provided communication and networking about our favorite subject—geophysics.

SEG has developed new guidelines for processing proposals for support of events. Planning has been put in place for future meetings including SAGA in Drakensberg, South Africa, in October 2002; Mumbai 2002 in January; Geo 2002 in Bahrain; the Society of Economic Geology; Cairo 2002; the SEG Annual Meeting for 2002 to be hosted by the Near-Surface Geophysics Section in Salt Lake City; INDO 2002; and the 2003 International Geophysical Conference in Beijing. We are pleased to have Pieter Hoekstra as general chairman and Mike Powers as Technical Program chairman for the Salt Lake City meeting.

SEG also helped sponsor a Virtual Global Workshop as a pilot test of the feasibility of utilizing electronic conferencing to enhance content and expand meeting access to broader numbers of members in the future. The AAPG/SEG Fall 2001 Distinguished Lecturer with

Kurt Rudolph has been organized and is proceeding. The SEG Spring 2002 Distinguished Lecturer, Geoff Dorn, is planning his program for next year. Leon Thomsen is preparing for the SEG/EAGE DISC program for 2002.

Finance

The attached financial statements and report from the Secretary-Treasurer/Finance Committee verify the excellent financial health of the organization. In addition, the Finance Committee has undertaken a realignment of investment strategy for the Society and Foundation to help ensure maximum return on investment portfolios. In continuing efforts to secure new sources of revenue, a study was made of possibilities for enhancing the value of the site of the Geophysical Resource Center.

Affiliations

We are pleased to have approved the formation and affiliation of new student sections at Sydney University, Australia; the University of Wisconsin-Madison, United States; the University of Suleyman Demirel, Isparta, Turkey; and the University of Leicester, United Kingdom.

Publications

We continue to expand our fine collection of publications. GEOPHYSICS and THE LEADING EDGE remain the premier applied geophysics publications. This year we began to market videotapes of the DISC program and online CD-ROM presentations of the Distinguished Lecturer, Mike Cox, on *Static Corrections for the 21st Century* so that members unable to attend one of the live presentations can access the excellent material provided through these programs. New publications approved this year include: *Collection of Geologic Columns in TLE*, by Ray Thomasson and Lee Lawyer; *Anisotropy 2000: Fractures, Converted Waves, and Case Studies: Proceedings of the Ninth International Workshop on Seismic Anisotropy (9IWSA)*, edited by Luc T. Ikelle and Anthony Gangi; *Hardrock Seismic Exploration*, edited by David W. Eaton, Bernd Milkereit, and Matthew H. Salisbury; *Fundamentals of 3-D Seismic Survey Design* by Gijs Vermeer, and yes—a fourth edition of Bob Sheriff's *Encyclopedic Dictionary of Exploration Geophysics*.

Several new books were published during the year, most notably *Seismic Data Analysis: Processing, Inversion, and Interpretation of Seismic Data*, by Öz Yilmaz. More than 1500 copies of this second edition of *Seismic*

Data Processing were sold before the book had been in print for three months.

SEG also made arrangements to deliver a complete archive of technical papers from *GEOPHYSICS* and *THE LEADING EDGE* via the American Institute of Physics' Online Journal Publishing Service. This service will greatly enhance the visibility of SEG's journals through the state-of-the-art cross-referencing, indexing, and online distribution mechanisms.

The SEG Web site at www.seg.org continues to be a broadly used and significant source of information for our membership. It provides information and resources on the organization, its operation, products, services, and the opportunity to interface with other geophysicists.

Intersociety Cooperation

This year SEG was determined to become more involved with other sister organizations. We increased our participation level in American Geological Institute (AGI), opened cooperation discussions with American Geophysical Union (AGU), and met with Environmental and Engineering Geophysical Society (EEGS) to discuss common goals. SEG and the International Association of Geophysical Contractors (IAGC) have had several meetings and discussions during the year to focus on enhanced communication and cooperation.

SEG continues to enjoy a close friendship and cooperative spirit with the European Association of Geoscientists and Engineers (EAGE). This is evident in the many joint programs and meetings throughout the year. We were pleased to be able to wish EAGE a happy 50th anniversary in June and hope to enjoy many more years of cooperative ventures.

The SEG Executive Committee met jointly with the American Association of Petroleum Geologists (AAPG) Executive Committee in June and discussed current and future plans for joint programs. Through the workings of a small intersociety group known as the Virtual Intersociety Cooperation Committee (VICC), the AAPG, Society of Petroleum Engineers (SPE), and SEG presidents have encouraged several task forces to develop plans for cooperative programs. A new joint Distinguished Lecturer program swap has been approved by all three organizations as a part of this initiative. This will provide for cross-discipline speakers to be included in the offerings of each society. Discussions are under way with AAPG for a combined Corporate Liaison Committee.

For the first time, SEG has in place a contractual agreement relative to the AAPG Insurance Program. This provides an SEG voting member to the AAPG Insurance Committee and is a step forward in providing for the needs of our membership.

Membership

SEG's membership continues to grow and currently

exceeds 17 000 in more than 100 countries. With the addition of Global Members beginning in January 2002, the Society continues its efforts to connect with geophysicists around the world. A revised and updated Corporate Membership category has been put in place. A survey of membership was conducted as part of the strategic planning process (see below).

Strategic Planning

The Executive Committee has spent some of its time developing the framework for a living strategic plan for the Society. A membership survey was undertaken prior to the commencement of this project to better understand where SEG is hitting and missing the mark with current membership services and objectives. This information can assist many of our program organizers and committees in better defining their roles. The Executive Committee met with the SEG Business Office staff and the Advisory Committee as part of developing the plan. Portions of the plan were presented at various locations around the world to solicit member input. Final results will be discussed at the Annual Meeting and provided to the next Executive Committee.

Personally

On a personal note, I would like to thank all of the SEG committees for their fine work this year. In particular, I thank the committees with which I have worked directly: the Advisory Committee, chaired by Brian Russell; the Committee on Nominations, chaired by Bill Barkhouse; the Honors and Awards Committee, chaired by Gordon Greve; the Tellers Committee, chaired by Richard Banks; the IAGC Representative, Gene Womack; the OTC representative, James Robertson; and AGI representative, Walt Lynn for all of the hard and thorough work that they have done this past year.

Due to the retirement of Paul Hummel as executive director in March this could have been a bumpy year. However, Jack Ingram has done very able work as acting executive director while we complete the search process for a new director. The SEG Business Office staff has performed with its usual level of professionalism and diligence to continue excellent service to members and well-managed functions. So much of the truly hard work is done behind the scenes and goes unrecognized. It is often difficult to thank them enough for the tremendous job that they do. I encourage all members to thank these wonderful people every chance you have.

I owe a special thanks to a wonderful group of gentlemen: Walt Lynn, Allen Bertagne, Yoram Shoham, Peter Annan, Richard Verm, and Chris Liner. This Executive Committee has been willing to leave personal agendas at the door and work long hours together as a true team to provide the decisions to steer SEG through the past year. They also have taken the time to formulate a basis for a strategic plan to help guide the organization

through the years ahead. I think they should feel particularly proud of their approach and accomplishments.

I sincerely thank the SEG members for the opportunity to serve as your president and international representative this past year. It has been a wonderful and fulfilling experience for me. The most significant aspect of this year has been the people—both old friends and new acquaintances who together form this great organization. Thank you.

Walt Lynn, President-Elect

Serving on the 2000-2001 SEG Executive Committee has been a great pleasure. Little did I know when I began on this committee how much I would enjoy it. During my year as president-elect, I have served as liaison to a number of committees, attended several other committee meetings to learn about current projects, attended several conferences representing SEG, worked with the staff in Tulsa on many issues, and have built and renewed many relationships within the SEG membership as well as with many people from other societies.

As noted in other reports in this document, this year's Executive Committee has endeavored to build a strategic plan for the SEG. Not only has this project been a great deal of fun, but it is helping us to provide context for decisions and actions in areas that have not necessarily been mainstream SEG projects and services. I intend to continue building upon this plan in the coming year.

Early in my tenure as president-elect, I noted the value of having a year to become familiar with all the aspects of SEG. This led me to consider, discuss, and eventually propose some amendments to the SEG Constitution and Bylaws to have every Executive Committee member serve two years. This is reported in detail in the August 2001 issue of *THE LEADING EDGE*. Additionally, I proposed some minor changes to clarify the benefits of Global Membership. Special thanks go to Shirley Domenico, the **Constitution and Bylaws Committee**, chaired by Walter Johnson, and the numerous people who provided valuable input and insights.

One of my keen interests is education. I was delighted to learn more about the ongoing efforts within SEG, including the work of the Student Sections/Academic Liaison Committee, Continuing Education Committee, Geoscience Center Committee, Annual Meeting Steering Committee, and the Geoscience Education Department at the SEG Business Office. Additionally, through exposure to other societies, I have become aware of and have passed on information regarding many other educational efforts elsewhere. These projects range from middle school through adult education; from text material to Web-based learning to video.

In April, I attended a National Science Foundation/American Geological Institute sponsored workshop on demographics in the geosciences. An initial report

on this workshop has been published in June 2001 *Geotimes*. All of us are aware of the aging workforce in our industry. We are not unique in this regard. We have begun discussions and efforts on attracting talent to the geosciences but still have a great deal to do.

Some good strides were made this year in improving communication between the SEG Executive Committee and the SEG Foundation Board and Trustee Associates Steering Committee. This led to an improved understanding of investment philosophies and strategies. More work still needs to be done, however, on several financial issues between SEG and SEG Foundation.

The **Annual Meeting Steering Committee** with general chairman John Bissell, his excellent committee members, and the tireless efforts of the SEG Meetings and Marketing Department have been superb in preparing for the 2001 Annual Meeting in San Antonio. The fruits of their efforts will be obvious at the Conference and Exhibition.

The **2002 Annual Meeting Steering Committee** was formed with Pieter Hoekstra as general chairman and Mike Powers as Technical Program chairman. Both have been working with their respective counterparts of the 2001 Annual Meeting Steering Committee and are well on their way to organizing a successful meeting in Salt Lake City.

The SEG **Research Committee** met twice this past year. Six workshops were planned and organized for the Annual Meeting in San Antonio. The July SEG Summer Research Workshop, *Synergies in Geophysical, Medical, and Space Imaging*, was excellent and set a great example for cross-fertilization of ideas between different industries and disciplines.

As president-elect, I served as the Executive Committee liaison to **SEG Sections and Associated Societies**. Efforts required here were very minimal this year.

I am grateful to have worked with Sally Zinke and the other Executive Committee members and look forward to my tenure as president. I thank the SEG staff, committee members, and the many volunteers who continue to be the backbone of the Society.

Allen J. Bertagne, First Vice President

It has been an honor to serve SEG over the last year and I am grateful for having had the opportunity to interact with a hard-working, engaged, and thoughtful Executive Committee. Over the year we have dealt with many issues as a team and have also worked on individual assignments.

One of the first issues that I was assigned was to consider whether it would be possible to increase contributions coming into the SEG Foundation and how this might be achieved. My conclusion was that there are considerable sums of money available in the United States, in general, and in our industry in particular, and

that there is no reason why SEG should not be able to increase its "market share." I proposed a plan for doing this; the cornerstone of which would be the hiring of a fund raising executive who would spend full time devising plans to capture potentially available funds. This individual would not replace any part of our existing structure but would complement it. The plan has been presented to the Executive Committee and has been discussed with the Foundation. I am confident that, if implemented, this plan will be very successful.

The committees that I have interacted with include the External Affairs Committee and the Interpretation Committee. The former, led by Ken Tubman, has continued to be active regarding the issue of the impact of seismic sources on marine mammals. Jack Caldwell, in particular, continues to play an important role in this area by urging the industry to support an improved understanding of the issue. He has participated in many meetings to help educate both our colleagues and environmental groups.

I have also been the Executive Committee point of contact for the Interpretation Committee, which has had several initiatives over the course of the year and has been led by Gary Yu.

For the last year, I have continued as SEG's representative to the Editorial Advisory Board of *GeoArabia*, a high-quality technical publication focused on Middle East geosciences. This role involves reviewing certain papers but also ensuring a good communication and exchanges between that publication and *THE LEADING EDGE*. As a result, we have reprinted several excellent articles from *GeoArabia*. Of particular significance was the October 2000 issue of *TLE*, which included a very well-received Special Section on North Africa and the Middle East and which included several *GeoArabia* papers.

In addition to these individual issues, I have been heavily involved with the rest of the Executive Committee in the development of the strategic plan. I presented certain personal views on the future of SEG in the October 2000 *TLE* and those views were incorporated into the overall discussion. This year's committee has brought a range of backgrounds and experience, which in my judgment have allowed us to forge a comprehensive vision of the future and a plan that can help ensure a central role for geophysics and geophysicists in the future.

Over the last year I have been frequently asked whether serving as SEG first vice president is hard work. Yes, it is hard work, although with the SEG staff handling the day-to-day details, it is certainly manageable. It is also most rewarding. I have learned a tremendous amount from my colleagues on the Executive Committee, have built friendships as a result of considering difficult, as well as exciting issues, and have had the satisfaction of seeing the result of certain decisions. If you have an

opportunity to serve our Society, I urge you to accept it; you won't regret it.

Peter Annan, Second Vice President

Serving on the SEG Executive Committee has been a stimulating and challenging experience. The current Executive Committee consists of an exceptionally talented group of people who are truly concerned about SEG and its future.

Challenged by our president, Sally Zinke, we have spent considerable time over the last year on strategic planning to provide a basis for directing SEG into the future. The outcome of this effort appeared in *THE LEADING EDGE* (July and August 2001). A specific highlight for me is the formal recognition of the growing worldwide interest in the engineering, environmental, and infrastructure applications of geophysics.

During the year we again addressed the issue of certification for geophysicists. The conclusions were similar to those drawn in the past. A summary of the current SEG position appeared in the President's Page of *THE LEADING EDGE* in February 2001.

The API Telecommunications Committee reported that ultra wideband (UWB) devices were an issue of concern to the Federal Communications Committee (FCC). Sally Zinke issued a letter to the FCC on behalf of SEG indicating our concern that UWB electromagnetic devices have widespread use in our industry and that the rule making should not be detrimental to our members in their professional and business activities.

The problem of institutional memory raised itself many times. All Executive Committee members felt that we needed more knowledge of past decisions. Many times issues arose which had been addressed by a previous Executive Committee. Because a considerable period of time may have elapsed, the rationale for prior decisions was often unavailable or ill defined. To some degree a strategic plan and placing SEG activities in the context of the strategic plan can help overcome this problem.

Another part of a solution to this problem is a longer term for the Executive Committee. All members of the current Executive Committee felt that a two-year term would be more appropriate. We all felt that we were only just starting to understand the dynamics of the job when we were attending our last meeting. Walt Lynn, our president-elect, will be following up on this issue and hopefully will develop an alternate format for future SEG Executive Committees.

The current Executive Committee tended to work as a board of directors without getting totally engrossed in details best handled by the professional staff in Tulsa. Future Executive Committees should keep this in mind. The role of the Executive Committee is to provide leadership and vision, not micromanagement.

For me, serving on the Executive Committee of SEG has been a more stimulating experience than I anticipated. The opportunity to work with such a talented group of broad thinking people to shape the future of SEG has been extremely gratifying. Working with the SEG staff in Tulsa has given me a new appreciation for the role these committed people play. I strongly encourage anyone who is concerned about the future of applied geophysics to volunteer for the SEG Executive Committee in the future. You will have an interesting opportunity to broaden your horizons and make a tangible contribution to the advancement of the geophysical community.

Yoram Shoham, Vice President

It is rare that an activity can simultaneously provide challenges, sense of meaning, opportunities to achieve, make an impact, and be enjoyable. Serving the SEG as vice president gave me all of the above and more. I feel that I have returned to the Society significant contributions during the last year. I thank the membership for the honor of electing me and giving me the opportunity to affect our future directions.

One of my strongest guiding principles during the year was the belief that exciting future challenges will change dramatically the ways we work in all geophysical applications. These include exploration and production of oil, gas, and mineral resources, environmental issues such as carbon and water management, engineering geotechnologies, and more. The transformation of the oil and gas fields from the era of concrete and steel into plants that will involve continuous sensing and optimized proactive reservoir control will bring us into strong contact with technologies that are novel to our discipline. These changes will create a technical renaissance and a bright future. My views are summarized in two President's Pages (December 2000 and June 2001).

Guided by fundamental principles and beliefs such as those described above, I took a strong role in the Executive Committee efforts in forming a living strategic future framework for SEG. It consists of a set of visions of the future which is relevant to our profession, missions for enabling the Society to prosper in the envisioned future and strategies (as well as some tactics) to implement the missions. The results of this work have already benefited from considerable input from the Advisory Board, the SEG staff, and many others. It will be presented at the San Antonio Annual Meeting.

An important area of my activities was intersociety cooperation. In addition to the ongoing dialogs with the American Association of Petroleum Geologists (AAPG) and the Society of Petroleum Engineers (SPE), I initiated contacts with the American Geophysical Union (AGU) and continued my work with the European Association of Geoscientists and Engineers (EAGE) Research Committee, which I helped establish in 1999. I believe

that further expansion of such cooperative initiatives should be carried out in the future.

As vice president I served as the Executive Committee liaison to several SEG committees. These included Global Affairs, Continuing Education, and Development and Production. Of special note is the development of a new Global Membership category. The Global Affairs Committee, under the leadership of Samir Abdelmoaty, is involved in many activities, meetings, and interactions worldwide. The Continuing Education Committee is actively considering ways to meet expanding future needs and serve the membership better. A highlight was the Development and Production forum in Taos, New Mexico. I have also continued to serve as an active member of the Research Committee, which I have chaired in the past.

To conclude, I wish to extend special thanks to very special people, my colleagues on the Executive Board: Sally Zinke, Walt Lynn, Allen Bertagne, Peter Annan, Richard Verm, and Chris Liner. Together we have managed to develop very harmonious ways of working which enabled the high performance and achievements of our committee.

Richard Verm, Secretary-Treasurer

Serving on the SEG Executive Committee has been a rewarding and challenging experience. I am always impressed by the number of dedicated people willing to volunteer for the good of the Society. It is this opportunity to work with a wide cross section of the SEG that is the greatest reward.

The main role of the Secretary-Treasurer is to chair the Finance Committee and oversee the finances of the SEG. In this respect fellow committee members Jack Kruppenbach and Angie Stracner ably and cheerfully helped me. I appreciate their unselfish willingness to give of their personal time to travel, as necessary, to the committee meetings. In addition, they responded quickly to my phone and e-mail messages with carefully thought out responses thus enabling the committee to remain productive between meetings.

The smooth functioning of the Finance Committee is considerably due to the capable and dedicated contributions of the SEG staff. In particular, Jack Ingram, associate director of Finance, and SEG's Finance Department continue to do an outstanding job of managing and tracking the Society's money. Reporting and tracking are evolving processes that continue to improve. One important area of improvement over the past year has been the tracking of SEG staff time spent working on various programs.

Because this report is being prepared before the end of the fiscal year (June 30, 2001), the final financial figures are not yet available. Projections put the revenues just over \$8 375 000, with expenses just under \$8 255 000. While expenses are approaching revenues, the end of

year should still find SEG with a small but positive net income. A number of factors are responsible for income and expenditures being so close. The Annual Meeting in Calgary, under Neil Rutherford's leadership, offset lower revenues by reducing expenses with the result that the budgeted net income was achieved. At the same time, advertising and subscription revenues dropped. Other expenses, however, were deferred to offset the change in revenue. In the end, SEG managed to balance revenues versus expenses.

The secretarial aspect of this position includes oversight of the Membership Committee. Under Russ Opfer, in his first year as chairman, the committee has worked quite well. Membership remains more than 17 000 members. In addition, there has been a new membership category, Global Membership, added this year. This category required changes to the Constitution and Bylaws that were approved by a vote of the Active Members last November.

Another change involved the dues and benefits for Corporate Membership. Beginning January 1, 2002, Corporate Membership will have annual dues of \$1000. Corporate members will no longer receive a booth at the Annual Meeting as part of their membership benefits. Instead, other benefits, such as discounts on mailing list rental, salary surveys, and special Web links will be available to corporate members. This membership category had become linked to exhibiting at the Annual Meeting. It is hoped that this change will engage companies to become more involved with SEG outside of the Annual Meeting.

One of the most valuable outreach programs in SEG is the Foundation Scholarship Committee. The process of granting scholarships to students gives this committee an impact beyond the scope of the Society. William Pearson chaired the committee through the process this year, which awarded scholarships to 116 individuals.

The Distinguished Lecture Committee, this year cochaired by Lynn Comeaux and Bob Brown, selected a new speaker, Geoff Dorn, for the 2002 spring series. Only one speaker was selected by SEG because, in the coming year, it is AAPG's turn to sponsor the SEG/AAPG Distinguished Lecturer.

The Gulf Coast Spring Technical Symposium was a successful joint venture between SEG and the Geophysical Society of Houston. Mike Graul and Tury Taner were the cochairs for this three-day event. The symposium topic was *Reservoir Resolution through Comprehensive Use of Seismic Data Attributes*. More than 30 papers covering background, case histories, and theory were presented.

I would like to recognize Sally Zinke and Walt Lynn for their extraordinary efforts in representing SEG around the globe this past year. The vast number of hours they have logged in air travel astounds me. It takes

extraordinary dedication to maintain a demanding schedule with such dignity and poise. In addition, I wish to acknowledge my fellow members of the Executive Committee who have made this year a rewarding experience for me and to the SEG Business Office staff who have worked so hard to make my tasks easier.

Chris Liner, Editor

This is the final year of my term as editor, and the annual report is a good venue for me to make some comments concerning the people I have worked with and the position itself. On a day-to-day basis, the editor deals most with the SEG staff members who manage the manuscript tracking system, keep up with all author correspondence, etc. These tasks are accomplished tirelessly and efficiently by Judy Wall and Sheral Danker. It is not possible for me to speak too highly of these exceptional people, and I hope any SEG members reading this will take the opportunity at the Annual Meeting to make an introduction and thank them for such dedication. Of course, others are involved at different levels and functions and I do not mean to slight them by omission. They are one and all greatly appreciated by this soon-to-be ex-editor.

The role of editor often puts one in conflict with authors who feel their work has been treated unfairly. The fact is that the peer-review process is far from perfect, but it is the best method known to ferret out mistakes in scientific literature. Still, some leak through, and a perpetual issue is the long delay time between manuscript submission and acceptance. This is not a democratic flaw; not all authors are affected equally. Concise, well-reasoned, well-written papers have a tendency to go quickly through the system, although there are many examples of world-class papers which languish in the peer-review process or are even outright rejected to be published with fanfare elsewhere. Scientific peer-review is a process at once precise and inexact, impersonal and emotional, satisfying and exasperating—in short, it is a human endeavor.

As my term is closing, SEG is on the verge of modernizing its peer-review and manuscript tracking systems by moving them online. Our expectation is that by using the Internet, we can speed delivery of papers through the peer-review process, streamline tracking procedures, provide better reporting, and save on mailing costs.

Following are statistics reported for papers submitted June 1, 2000-May 31, 2001: A total of 264 papers and discussions were submitted, an increase of five papers from the previous year. It is traditional to list submissions by country and type of employer. These summaries for the past year are given in Tables 1 and 2. Tables 3 and 4 show manuscript handling statistics.

**Table 1: Origin of papers submitted for publication
in GEOPHYSICS by country
June 1, 2000 - May 31, 2001**

USA	.99
Canada	.22
China	.20
United Kingdom	.19
Australia	.17
Norway	.15
France	.11
Netherlands	.9
Italy	.8
Germany	.5
India	.4
Brazil	.3
Israel	.3
Russia	.3
Switzerland	.3
Denmark	.2
Egypt	.2
Korea	.2
Sweden	.2
Taiwan	.2
Turkey	.2
Finland	.1
Hungary	.1
Iran	.1
Ireland	.1
Japan	.1
Mexico	.1
New Zealand	.1
Nigeria	.1
Poland	.1
Saudi Arabia	.1
Thailand	.1
Total	.264

**Table 2: Origin of papers submitted for publication
in GEOPHYSICS by employer
June 1, 2000 - May 31, 2001**

Universities	.177
Research Institutes	.25
Oil Companies	.21
Governments	.19
Service Companies and Manufacturers	.16
Mining Companies	.3
Industry	.2
Consultants	.1
Total	.264

Table 3: Manuscript handling statistics

Year submitted from June 1-May 31	Average number of days for first review
1991-92	172
1992-93	157
1993-94	184
1994-95	182
1995-96	211
1996-97	186
1997-98	205
1998-99	214
1999-00*	215
2000-01*	156

*First reviews have not been returned for all papers.

Table 4: Manuscript handling statistics

Year published from June 1-May 31	Average number of days between acceptance and publication
1991-92	176
1992-93	181
1993-94	178
1994-95	210
1995-96	N/A
1996-97	N/A
1997-98	180
1998-99	177
1999-00	202
2000-01	208

Reports of the Standing Committee Chairmen

Advisory

Brian Russell, Chairman

The Advisory Committee consists of the five most recent SEG past presidents and exists to advise the current SEG Executive Committee and president on issues raised either by the Executive Committee or the Advisory Committee. During the 2000-2001 term, the Advisory Committee met three times, once during the SEG Annual Meeting in Calgary, once in February in Denver following a meeting of the Honors and Awards Committee, and again in Denver in May at the Executive Committee meeting during the AAPG convention. At these meetings, we advised the president on various issues of concern to the membership. In particular, at the May meeting, we provided feedback on SEG's strategic planning process. We also provided comments and observations upon request via e-mail throughout the year on other topics. We hope that our input provides much needed continuity and "institutional memory" to the current president and Executive Committee, and allows this group to make more informed decisions concerning our Society.

Seventy-First Annual Meeting

John W. Bissell, General Chairman

All signs are pointing to a great turnout for the 2001 Annual Meeting in San Antonio, Texas, September 9-14. Technical paper submissions, exhibitor support, and delegate response to the Annual Meeting Announcement all reflect the tremendous surge of enthusiasm our industry has been experiencing in 2001. The increased level of drilling activity in the first part of the year has set a grueling pace that is taxing both equipment and personnel. These are exciting times for all of us in the geophysical arena.

As always, our primary goal is to promote the advancement of geophysics, and what better way than networking with colleagues in San Antonio. The Annual Meeting provides venues for professional advancement through participation in technical sessions, workshops, and continuing education courses as well as the exhibition floor itself. The combination of these formal sessions with the array of social events being offered provides delegates with a rewarding and relaxing break

from the day-to-day grind.

The Steering Committee, the SEG staff, and the Executive Committee are proud to offer this chance for delegates, spouses, and students to join us in San Antonio and be a part of our global community.

Committee Members: John Bissell, general chairman; John Long, general vice chairman; Bob Hardage, Technical Program chairman; Doug Toepperwein, Arrangements chairman; James Little, Special Programs chairman; Pamela Meredith, International Showcase chairman; Glenn Kroeger, Applied Science Education Program chairman; Maureen Iglesias, Exhibitor Committee chairman; and Debbie Bissell, Spouse Program chairman.

Constitution and Bylaws

Walter E. Johnson, Chairman

The Constitution and Bylaws Committee is again indebted to Norm and Shirley Domenico for their continued support. All matters were handled effectively by e-mail, telephone, and an occasional meeting with an Executive Committee member. No physical meetings were necessary.

The C&BL Committee was requested to review the proposed changes to the Constitution and Bylaws relative to the proposed changes in the titles and terms of the office. The Executive Committee would have two-year terms rather than the current one-year term. The purpose for the proposed changes was to provide more continuity in the Executive Committee from year to year. More continuity was desirable because negotiations for some meetings and business matters require more than a year.

Other proposed changes to the Constitution and Bylaws were more housekeeping in nature. An exception was the new Global Membership category. More formalization was required in this case, and new standards of conduct were proposed.

The Constitution and Bylaws Committee rendered an opinion concerning an election problem; one of the candidates believed to be an Active Member was in fact an Associate Member. The candidacy of that member was declared invalid; therefore, that member could not serve as an officer.

The Constitution and Bylaws Committee advised various members of the Executive Committee and other

committees concerning Code of Ethics issues, and the Conflict of Interest Policy.

The C&BL Committee was also involved in an advisory role concerning a member who had presented a paper at the Annual Meeting that was subsequently published in *THE LEADING EDGE*. This member had left the company after the work was performed and initially published. This member's former employer had requested that this paper not be presented at a meeting of a local society. This member was advised that technically the figures published in *THE LEADING EDGE* were property of the Society of Exploration Geophysicists, and the former employer really no longer had control over who had the right to view those figures; however, the member was advised to use good will when dealing with his former employer.

The chairman wishes to once again thank the SEG staff for their excellent advice and support.

Continuing Education

Don Herron, Chairman

During the past year (July 1, 2000 to June 30, 2001), Continuing Education moved ahead with the SEG/EAGE Distinguished Instructor Short Course (DISC) program. The CE Committee, SEG, and EAGE sincerely thank Robert Garotta for the SEG/EAGE DISC 2000 presentation *Shear Waves from Acquisition to Interpretation*. This year Fred Hilterman is offering SEG/EAGE DISC 2001, *Seismic Amplitude Interpretation*. Following his initial class in Houston in March 2001, Fred gave SEG/EAGE DISC 2001 five more times through May. He is scheduled to present this exceptional one-day course at 15 additional locations around the world through October 2001.

For SEG/EAGE DISC 2002, Leon Thomsen will present *Understanding Seismic Anisotropy in Exploration and Exploitation*. Once again we thank Peter Duncan and Simon Spitz, DISC subcommittee cochairmen, for their time and effort in maintaining the continuity and vitality of the SEG/EAGE DISC program.

Employing its updated procedures for evaluating new course proposals, the CE Committee provisionally approved several courses for the coming year and added three new courses to the CE curriculum:

Digital Signal Analysis in Seismic Data Processing
by Enders Robinson and Osman Hassan

Introduction to Geostatistics by Larry Lake

Dynamic Reservoir Characterization—Multicomponent 4-D by Steve Roche and Tom Davis

The committee's course review procedures can now be downloaded from the Continuing Education section (under "Proposals") of the SEG Web site.

Primarily through the efforts of Bob Bruce, SEG CE

Committee vice chairman, the committee organized a joint SEG/AAPG course *Pore Pressure Prediction in Practice* by Richard Swarbrick and Martin Traugott. The course will be offered for the first time at the SEG Annual Meeting in San Antonio in September 2001.

The CE Committee has continued its effort to expand the sphere of educational activities to include distance learning. Under the leadership of Rod Cotton, the Distance Learning Subcommittee is sponsoring the workshop *Distance Learning: Teaching in the New Media* at the upcoming SEG Annual Meeting. Also at this meeting, the CE Committee is supporting the workshop *Subsurface Technology—What will geophysicists of the future need to know?* by Yoram Shoham and John Castagna.

This year I will finish my third term as CE Committee chairman and take this opportunity to thank the people who have given me so much assistance and support. First of these is Bob Bruce, without whom I'm certain the committee could not have functioned effectively and achieved its goals over the past three years. I owe a considerable debt of gratitude also to past and present CE Committee members, the Geoscience Education staff in Tulsa, and the individuals who have acted as CE liaison to the SEG Executive Committee. Finally, and by no means least, I thank all the CE instructors whom I have had the honor to represent—without a doubt these men and women are premier examples of excellence in the geophysical profession.

Development and Production

Michael (Mike) J. Wilt, Chairman

The Development and Production (D&P) Committee was established to promote the exchange of information in the rapidly expanding field of development and production geophysics. Among the primary goals is fostering communication between geophysicists and engineers and other geotechnical professionals who manage oil fields around the world. These goals are achieved through meetings and informal workshops, technical and semitechnical publications, and interaction with other societies.

As the new chairman, I have inherited a committee in excellent health. The past chairman, John Eastwood, did an excellent job in managing the complex functions of this committee and in keeping the communication with other societies open and free flowing. Past committee chairmen have also been invaluable in providing advice and direction for this inexperienced chairman.

I soon became aware that the D&P Committee is a busy place. We sponsor a summer forum (at least one), provide articles for an annual issue of *THE LEADING EDGE*, sponsor a workshop, luncheon, and several technical sessions at the SEG Annual Meeting, and interact with

sister committees at the Society of Petroleum Engineers (SPE) and the European Association of Geoscientists and Engineers (EAGE). All these functions require planning and assistance from a highly skilled (and understanding) SEG staff. In particular, we thank Michele Sterner for an excellent job as past meetings coordinator, and Kristi Smith, the new coordinator, who has already steered us past a series of land mines.

The annual highlights from the D&P Committee are often centered around the summer forums. These forums are always lively events, providing an invaluable source of information and an opportunity to get personal with the projects and the people running them in oil fields around the world. Attendance at these forums is always a treat, and attendees come away with new contacts and a new perspective on managing oil reservoirs.

This year the annual forum was held June 24-28 in Taos, New Mexico. It was titled *Integration of Geological, Geophysical and Engineering Data: The Quest for the Ultimate Reservoir Model*. Cochairmen Nazih Al Najjar and Keith Hirsche presided over eight sessions that ranged from geostatistics and case histories to emerging technologies in reservoir management. The forum was attended by more than 80 professionals in geophysics, reservoir engineering, and geology.

In August 2002, the forum will be sponsored by SEG and SPE and will take place in Vail, Colorado. This program is being developed.

Although the forums provide no written material, some of the best presentations are preserved in *The Best of the D&P Forum* workshop at SEG's annual meetings. This workshop attempts to capture the spirit of the summer event in an afternoon. The 2001 workshop at the SEG meeting in San Antonio will be chaired by Nazih Al-Najjar, Keith Hirsche, and Michael Wilt.

The 2001 SEG Annual Meeting in San Antonio will also feature numerous D&P activities. The annual D&P luncheon, arranged by Gene Sparkman, will feature a presentation *The Impact of Deep Water Geohazards on Business Delivery*, by Andrew Hill of BP Amoco. This is a timely topic for all presently involved in the new world of offshore development and production.

In addition to the forum and workshop, our members also provide articles for the annual D&P issue of THE LEADING EDGE. The March 2001 *TLE* issue was edited by Wayne Pennington and Ashley Francis. Roughly half of its articles were from the summer forum. The 2002 *TLE* issue will be edited by John Eastwood, Keith Hirsche, and Nazih Al-Najjar.

The D&P Committee holds two meetings for committee members. The first is at the summer forum. The second will be at the SEG Annual Meeting. Prior to the Annual Meeting, we will co-host a reception with the Research Committee. New topics for consideration include holding international D&P forums, strengthening ties with other SEG committees, and considering several proposals for publications and short courses.

Finally, let me offer my thanks for being selected as new chairman. This is an active and forward-looking committee, and I am pleased to be a part of it.

Distinguished Lecture

Robert P. Brown, Cochairman

Lynn D. Comeaux, Cochairman

The Spring 2001 SEG Distinguished Lecturer was Robert Tatham. His lecture, *Breaking Down Barriers to Effective Use of Multicomponent Seismic Data* was presented to 17 Sections/Associated Societies in North America and has been videotaped for future presentation on the SEG Web site.

David Lumley served as the Fall 2000-2001 SEG/AAPG Distinguished Lecturer. His theme was *The Next Wave in Reservoir Monitoring: The Instrumented Oil Field*. This was the first combined SEG/AAPG tour to be organized by SEG. Each year, SEG and AAPG submit a lecturer for approval by both Executive Committees. The two Business Offices alternate years in scheduling and logistics for joint tours; thus AAPG organized the inaugural 1999-2000 tour; and SEG the Fall 2000-2001 tour. Previously, the SEG Distinguished Lecture program consisted of two lecturers (fall and spring). To accommodate the joint program, one of the two lectures is combined.

Kurt Rudolf will be the SEG/AAPG Distinguished Lecturer in the fall of 2001. His lecture will be *DHI/AVO Analysis Best Practices: A Worldwide Analysis*. His tour will be organized by AAPG. Geoff Dorn will present the SEG Spring 2002 Distinguished Lecture tour *Advances in Visualization and Interpretation*.

Peter Cary, Technical Program chairman for the SEG 2000 Annual Meeting in Calgary, will serve as Distinguished Lecture Committee chairman beginning at the end of the SEG 2001 Annual Meeting in September. Bob Brown and Lynn Comeaux will serve on the Distinguished Lecture Committee until the close of the Annual Meeting in 2004.

Exhibitors

Maureen Iglesias, Chairman

The Exhibitors Committee was created several years ago as a voice for all exhibitors, both large and small, to relay their concerns to the SEG leadership at the Annual Meeting. The committee chairman and members are available throughout the year to aid exhibitors with any questions regarding exhibiting at SEG's annual meetings. Also, the committee will be on site during booth setup and will meet with most exhibitors one-on-one. Our goal as a committee is to respond quickly if our exhibitors need assistance during the show.

Committee members are: Micki Allen, Hilary Brawner, Carmen Comis, Kim Hardesty, Michelle Kluge, Phil Newby, and Dixie Poché.

Several issues were addressed during the exhibitor's meeting at the Annual Meeting in Calgary. The issue regarding material handling and how it could be included into the cost of the exhibit was again brought up. SEG again stated that it would not incorporate that cost at this time since drayage varies significantly by exhibitor, and not necessarily by booth size. Several concerns about the exhibit hall were mentioned, but the expansion and renovations to the San Antonio convention center will result in a much better venue than the Calgary convention center. Issues related to the service companies came up during the meeting as well. Steve Emery, of the SEG Business Office, has reviewed and satisfactorily answered questions to all other complaints raised during the exhibitor meeting in Calgary.

As of early June, Steve Emery has estimated that close to 1100 booths have been sold and still more inquiries are coming in from prospective exhibitors.

The close working relationship between the SEG Business Office and the exhibitor representatives ensures a successful exhibition that will continue the standard of excellence established at past annual meetings. It truly has been great working with the SEG Meetings Department and the other members of the Steering Committee. Together with my committee members, I look forward to a very successful 2002 Annual Meeting in Salt Lake City.

External Activities

Kenneth M. Tubman, Chairman

The goals of the External Activities Committee are to represent the profession outside the Society and industry, to provide information about the profession, to promote the image of geophysics as a profession, and to share and disseminate information.

This year the main work of the committee was cooperating with the U. S. Department of Commerce, Economic Classification Policy Committee. That committee was developing the North American Product Classification System (NAPCS). The current phase of that project involves product identification and classification efforts for various service sectors of the North American Industry Classification System (NAICS).

Our contribution for geophysics was included in the area of professional, scientific, and technical services. We provided definitions of geophysical terms and descriptions of geophysical activities. In addition to basic definitions, this involved drawing distinctions between different activities and providing an understanding of geophysics for nonscientists. Examples include differentiating between processing and reprocessing, and among processing, analysis, and interpre-

tation. While some of these differences seem clear to practicing geophysicists, they can be subtle to others. Some are subtle even to us. (The classification of depth migration as processing or interpretation appears to depend on whether the person doing the defining is a processor or an interpreter.)

The committee members are: Ken Tubman (chairman), John Castagna (vice chairman), Jack Caldwell, Albin Kerekes, Shawn Rice, Carl Sondergeld, Lynn Trembly, and Dave Zinzer. We continue to welcome new members and are accepting nominations for next year's chairman.

SEG Foundation

John R. Butler, Chairman

Richard A. Baile, Vice Chairman

L. C. (Lee) Lawyer, Secretary-Treasurer

There have been several major financial changes in the Foundation in 2000 and 2001. The Board of Directors passed a resolution capping expenditures of the Foundation at 5% of the average net asset value of the Foundation as of December 31 of the previous three years. This cap allows the corpus to continue to grow while simultaneously funding worthwhile Foundation projects.

In 1997, the investment management firm of Fayeze Sarofim & Co. was contracted to professionally manage the Foundation's investments. In 2000, the Board elected to further diversify the management of the funds and added the firms of Rorer Asset Management, LLC and Davis Hamilton Jackson & Associates to manage selected fund assets.

The assets of the Foundation have continued to grow during the year. As of December 31, 2000, the Foundation had a net asset value of \$8 654 752. This represents a 10% increase over year-end 1999 and approximately a 97% increase since year-end 1996. The increase includes the current market value of the assets, interest, dividends, and donations. The details of the financial status of the Foundation can be found in the following pages of this report.

The Double Impact program, started in 1998 and supplemented with \$500 000 the following year, continues to supply incentive for individual donations. Under this program, contributions to an endowment fund of \$1000 or more will be matched by a like amount from undesignated Foundation funds. The remaining amount available in the Double Impact program is \$509 709. There are no current plans to continue the program after those funds are matched.

Because of the Matching Grants program initiated by SEG and the Double Impact program of the Foundation, the Scholarship Endowment fund has grown dramatically. It currently totals \$2 326 960. Only income from the

endowment fund is used for scholarships; the principle is permanently restricted and is preserved as an endowment. Combined with annual donations, \$183 500 in scholarships were distributed in academic year 2000. The goal of the Foundation is to issue \$200 000 in endowed scholarships annually.

At its March 23, 2000 meeting, the Foundation Board of Directors agreed to fully support the Distinguished Instructor Short Course. They asked the Trustee Associates to place this program high on the priority list for building an endowment fund. Yearly donations from companies have greatly assisted in its funding. The 2001 program was partially funded in the amount of \$62 000 by donations from BP Amoco, Phillips Petroleum Corporation, Fairfield Industries, Texaco, and Kerr McGee Corporation. Approximately \$2.5 million is needed to permanently endow this program.

In 1997, the Foundation commissioned a bronze statue to honor our geophysical field personnel. It is named "The Doodlebugger." To finance it, a maquette edition was authorized. These are 18" bronze replicas of the large statue. To date, 48 of the 100 limited edition maquettes have been sold. The statue fund stands at \$57 159. The Foundation Board gave permission to begin work on the large statue even though fund raising was still under way. The statue unveiling is scheduled for fall 2001.

The Trustee Associates are the fund raising arm of the Foundation. Through their efforts many programs of the Foundation are viable. Currently, 120 individual members, 38 corporate members, and 11 SEG sections have joined as Trustee Associates. Their annual meeting in 2001 was held in Branson, Missouri. Perhaps because of the area's entertainment renown, the meeting was a complete success with a record attendance. Membership in the Trustee Associates requires a donation of \$5000 over a five-year period.

SEG Foundation Scholarship

William C. Pearson, Chairman

The SEG Foundation Scholarship Committee met on April 24 at the Geophysical Development Corporation in Houston to select scholarship recipients for the 2001-2002 academic year. Scholarships to 116 students totaled \$201 500; 52 were renewals and 64 were to new recipients. We received a total of 202 applications.

The Foundation Trustee Associates secure scholarship funds in the form of annual and endowment contributions from corporations, individuals, and SEG sections. Our ability to increase scholarship awards for 2000-2001 was made possible through generous contributions. Many thanks to the Executive Committee, the Trustee Associates, and especially to the many contributors who continue to invest in the future of geoscience. The list of scholarship recipients and donors for 2001-2002 is included in this report.

Scholarship Committee members who served this past year were Richard Cieslewicz, Lynne Edleson, Jim Flis, Vicki Messer, Mike McCormack, Karen Dittert, and Gokay Bozkurt. I take this opportunity to recognize the committee members for their support, dedication, and enthusiasm throughout the year. Each committee member spends many hours reviewing and assessing the numerous applicants, along with their ongoing responsibility of communicating with all current scholarship recipients.

SEG Foundation Scholarship Sponsors for the 2001-2002 Academic Year

AGIP	\$ 1000
ARCO	\$ 2000
Baird, Ralph W.	\$ 1000
Born, Ted Memorial	\$ 1000
Bridges, Rutt	\$ 1000
Chevron USA	\$12 000
Coffman, J. B.	\$ 1000
Conoco Inc.	\$ 3500
Cottrell, Rodney	\$ 1000
Dallas Geophysical Society	\$ 4000
Denver Geophysical Society	\$ 4000
Einarsson, T. Davey	\$ 1000
Exxon Production Research	\$11 500
Forrest, Michael	\$ 2000
Geophysical Society of Alaska	\$ 1000
Geophysical Society of Houston	\$ 1000
Geophysical Society of Houston/ Carleton-Farren	\$ 5000
Geophysical Society of Oklahoma City	\$ 4000
Geophysical Society of Tulsa	\$ 5000
Hilterman, Fred	\$ 1000
Hewitt, Marvin and Jean	\$ 1000
Hohmann Memorial	\$ 4000
Hron Memorial	\$ 1000
Jack, Ian (University of Birmingham)	\$ 5000
KEGS	\$ 2000
LaCoste	\$10 000
Landmark Graphics	\$13 500
McBride, Barbara Memorial	\$ 1000
Phillips Petroleum	\$ 8500
Schlumberger	\$ 2000
Shaw, Karen Kellogg Memorial/ Dallas Geophysical Society	\$ 7000
Shell Oil Foundation	\$ 3000
Sheriff, Margaret S.	\$ 6000
Sheriff, Robert E./ Geophysical Society of Houston	\$12 000
Smith, Charlie & Jean/ Geophysical Society of Houston	\$13 000
Softball Tournament	\$ 3000
Tilley, Aubra	\$13 000
Veritas DGC	\$ 2000
WesternGeco	\$ 3000
Western Geophysical	\$15 000
Worthington, David	\$ 2000

Source of Funds

Industry, Sections, Individuals	\$190 000
Other Individual Contributions	\$ 6500
SEG Foundation	\$ 5000

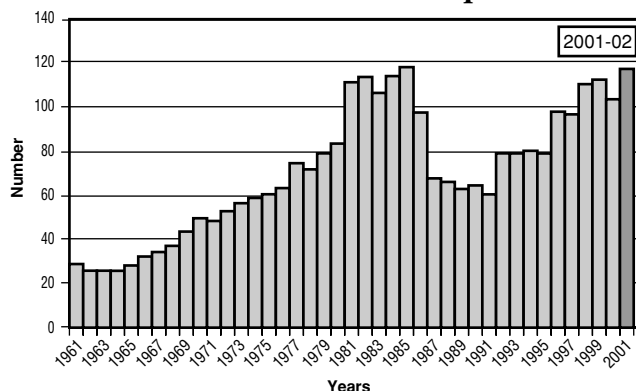
Sponsored Scholarships

Corporate	52
Individuals	28
SEG Sections	19
General Contributions and Foundation Fund Contributions and Earnings	17

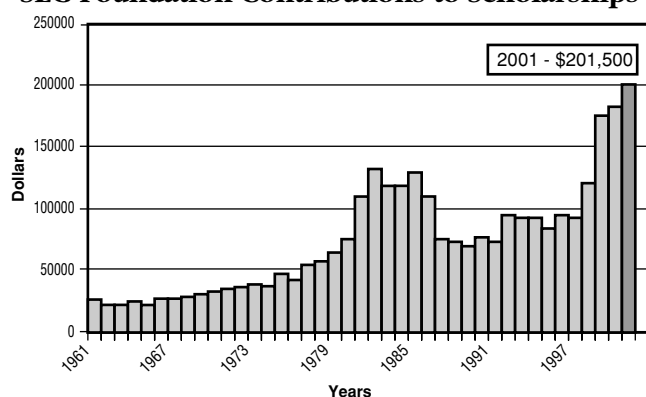
Funds Committed to Scholarships

Corporate, Individual, Section, Honorary, SEG Membership, Donations, and SEG Foundation Grant	\$201 500
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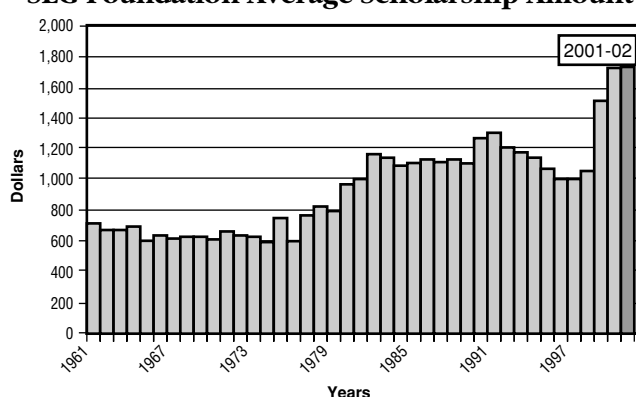
Number of Scholarships



SEG Foundation Contributions to Scholarships



SEG Foundation Average Scholarship Amount



Name	University	Award	Amount
Andy Aakhus-Witt	Colorado School of Mines	ARCO Scholarship #1	\$1500
Michelle L. Abraham	University of Oklahoma	Aubra Tilley Scholarship #6	\$2000
Ahmed Omar Alahdal	University of Oklahoma	Geophysical Society of Oklahoma City Scholarship #2	\$2000
Heidi L. Anderson	University of California-Berkeley	Landmark Graphics Scholarship #9	\$2000
Alicia L. Arevalos	Williams College	Phillips Petroleum Scholarship #7	\$1000
Jessica Marie Arnoldi	Texas A&M University	Geophysical Society of Houston Scholarship #1	\$1000
Stacey Ann Axton	Oklahoma State University	SEG Endowed Scholarship-Softball Tournament	\$1000
Nicole Baert	Colorado School of Mines	Denver Geophysical Society Scholarship #3	\$1000
Jianyong Bai	Texas A&M University	Phillips Petroleum Scholarship #1	\$2000
Simon Beaulieu	Ecole Polytechnique de Montreal	KEGS Scholarship - Canada University	\$1000
Michael J. Beckel	Colorado College	Denver Geophysical Society Scholarship #2	\$1000
Brooke A. Berard	University of Calgary	Shell Oil International Scholarship #1	\$1000
Alison Joy Berenback	Brown University	SEG General Scholarship #2	\$1000
Hoa Quang Bui	University of Oklahoma	Charlie & Jean Smith Scholarship #6	\$2000
Reynaldo Cardona	Colorado School of Mines	David Worthington Scholarship	\$2000
Louis Chabot	University of Calgary	T. Davey Einarsson Scholarship	\$1000
Tianyou Chen	University of Texas, Dallas	Dallas Geophysical Society Scholarship #1	\$2000
Emily Chetwin	Stanford University	Charlie & Jean Smith Scholarship #5	\$2000
Ivan Crabb	University of Adelaide	Phillips Petroleum Scholarship #5	\$1000
Claire A. Currie	University of Victoria	SEG General-Bay St. Louis Conference	\$2000

Name	University	Award	Amount
Diana Nicoleta Dragoi	University of Houston	Margaret S. Sheriff Scholarship	\$6000
Amanda Leigh Eads	Pennsylvania State University	SEG General Scholarship #1	\$1000
Hamed Zeidan El-Mowafy	University of Tulsa	Geophysical Society of Tulsa #2	\$2000
Jennifer L. Engels	University of Hawaii-Manoa	ExxonMobil Scholarship #7	\$2000
Tefera Eshete	University of Texas, El Paso	Chevron Scholarship #1	\$2000
Amy Fenton	University of South Carolina, Aiken	Shell Oil International Scholarship #2	\$1000
Rachel D. Finnegan	Montana Tech	WesternGeco Scholarship #2	\$1500
Andrew Michael Frassetto	University of South Carolina	SEG General Scholarship #3	\$1000
Oron Frenkel	University of California-Berkeley	Landmark Graphics Scholarship #3	\$1000
Paul Edward Gettings	University of Utah	ExxonMobil Scholarship #3	\$2000
Tamara Louise Gipprich	University of Michigan	Ralph W. Baird Scholarship	\$1000
Nicholas M. Gregg	University of Missouri-Rolla	Landmark Graphics Scholarship #7	\$1000
Monica Hartmann	New Mexico Tech	Conoco Scholarship #1	\$1500
Bingshou He	University of Petroleum, Beijing	ARCO Scholarship #2	\$500
Andrew M. Hennes	University of Montana	ExxonMobil Scholarship #6	\$1000
Scott Hess	Montana Tech	Phillips Petroleum Scholarship #2	\$1000
Nigel Hicks	University of Texas, El Paso	Geo Soc Houston / Farren Award	\$5000
Denise Joy Hills	University of Hawaii-Manoa	ExxonMobil Scholarship #2	\$2000
Loren Hoffman	California Institute of Technology	ExxonMobil Scholarship #1	\$1500
Anna E. Holt	Massachusetts Institute of Technology	Veritas DGC Scholarship	\$2000
Biaolong Hua	University of Texas, Dallas	Dallas Geophysical Society Scholarship #2	\$2000
Ernest Hull	Colorado School of Mines	Charlie & Jean Smith Scholarship #1	\$1000
John Edward Hunyadi	Colorado School of Mines	Michael Forrest Scholarship	\$2000
Oziegbe S. Ilaboya	University of Oklahoma	Aubra Tilley Scholarship #5	\$2000
Kristopher A. H. Innanen	University of British Columbia	Ted Born Memorial Scholarship	\$1000
Michael Leon Jessop	Montana Tech	WesternGeco Scholarship #1	\$1500
Yue Jia	University of Houston	Chevron Scholarship #7	\$1000
Timothy Chad Johnson	Boise State University	Landmark Graphics Scholarship #4	\$1500
James Robert Jordan, Jr.	Texas A&M University	Charlie & Jean Smith Scholarship #9	\$1000
Katarina D. Jovanovic	University of Houston	SEG International Scholarship #3	\$1000
Ryan Keisler	University of Texas, Austin	Charlie & Jean Smith Scholarship #8	\$1000
Kerry W. Key	University of California, San Diego	Conoco Scholarship #2	\$2000
Sonja Kisin	University of Houston	Robert E. Sheriff Award	\$12 000
Kelly Kore	University of Utah	Shell Oil International Scholarship #3	\$1000
Richard A. Krahenbuhl	Colorado School of Mines	Lucien LaCoste Scholarship	\$10 000
Isaac Kremsky	Stanford University	Charlie & Jean Smith Scholarship #4	\$1000
Daniel P. Lamb	Stanford University	Charlie & Jean Smith Scholarship #3	\$1000
Chunfeng Li	University of Tulsa	Geophysical Society of Tulsa #3	\$2000
Janessa Link	California Institute of Technology	SEG Endowed Scholarship-Softball Tournament	\$1000
Linong Liu	Chinese Academy of Sciences	SEG International Scholarship #6	\$500
John Londono	Louisiana State University	Charlie & Jean Smith Scholarship #10	\$1000
Shaoming Lu	University of Texas, Dallas	Karen Kellogg Shaw Scholarship #1	\$2000
Gislain B. Madiba	University of Texas, Dallas	Karen Kellogg Shaw Scholarship #3	\$1500
Ha Thanh Mai	University of Oklahoma	Aubra Tilley Scholarship #2	\$2000
Christine Malinowski	Millersville University	Landmark Graphics Scholarship #2	\$1000
Christopher L. Manriquez	University of Tulsa	Jene & Marv Hewitt Scholarship	\$1000
Veronica L. Martinez	University of Alberta	Frantisek Hron Scholarship	\$1000
Jason Ronald McKenna	Southern Methodist University	Karen Kellogg Shaw Scholarship #2	\$2000

Name	University	Award	Amount
Yanping Mi	University of Calgary	SEG International Scholarship #4	\$1000
Kathleen J. Miller	Montana Tech	Karen Kellogg Shaw Scholarship #4	\$1500
David A. Minken	University of Oklahoma	Aubra Tilley Scholarship #3	\$4000
Sarah Minson	University of California-Berkeley	ExxonMobil Scholarship #5	\$1000
Solmaz Mohadjer	University of Washington	Western Geophysical Scholarship #2	\$1000
Josh Moncrieff	University of British Columbia	AGIP Scholarship	\$1000
Robert D. Monnar	University of Nevada, Reno	Hohmann Memorial Undergraduate Scholarship	\$1000
Charley Murphy	University of Western Ontario	KEGS Scholarship - Ontario University	\$1000
Rachel Newrick	University of Calgary	SEG International Scholarship #2	\$1000
Thang Hong Nguyen	University of Oklahoma	Geophysical Society of Oklahoma City Scholarship #1	\$2000
Carlos Nieto	University of Calgary	Rodney Cottrell Scholarship	\$1000
Sean O'Brien	University of Texas, Austin	Chevron Scholarship #6	\$1500
Steve Taechun Paik	California Institute of Technology	Geophysical Society of Alaska Scholarship	\$1000
Passakorn Pananont	Cornell University	Chevron Scholarship #2	\$2000
Robin Ann Pearson	McGill University	Western Geophysical Scholarship #4	\$1500
Claire K. H. Perry	University of Western Ontario	Landmark Graphics Scholarship #1	\$2000
Karen Marie Phillips	Memorial University of Newfoundland	SEG International Scholarship #1	\$1000
Nathaniel Putzig	University of Colorado	Phillips Petroleum Scholarship #4	\$1000
Kristi N. Rasmusson	Boston College	Chevron Scholarship #3	\$1500
Robert B. Riley	University of Texas, Austin	Landmark Graphics Scholarship #5	\$1000
Theodore Royer	Colorado School of Mines	Charlie & Jean Smith Scholarship #2	\$2000
Debashish Sarkar	Colorado School of Mines	Western Geophysical/Carl Savit Scholarship	\$5000
Dawn Astrid Schippe	Colorado School of Mines	Denver Geophysical Society Scholarship #1	\$2000
Paul Schmieder	University of Tulsa	Geophysical Society of Tulsa #1	\$1000
Sarah Shearer	Colorado School of Mines	Barbara McBride Memorial Scholarship	\$1000
Nicholas O. Sidelnik	Massachusetts Institute of Technology	Tim Long Scholarship	\$1000
Darren S. Smith	San Diego State University	Landmark Graphics Scholarship #10	\$2000
Catherine Snelson	University of Texas, El Paso	Charlie & Jean Smith Scholarship #7	\$1000
Kyle Thomas Spikes	University of Kansas	Schlumberger Scholarship	\$2000
Russell Strom	Harvard University	J. B. Coffman Scholarship	\$1000
Masako Sugimoto	University of Hawaii-Manoa	Western Geophysical Scholarship #3	\$1500
Qiang Sun	University of Oklahoma	Aubra Tilley Scholarship #1	\$2000
Kin-Man Edmond Sze	Massachusetts Institute of Technology	Chevron Scholarship #5	\$2000
Weihua Robert Tau	Massachusetts Institute of Technology	Fred Hilterman Scholarship	\$1000
Martin Jordan Terrell	Colorado School of Mines	Chevron Scholarship #4	\$2000
Wes Thelan	University of Nevada, Reno	Western Geophysical Scholarship #1	\$1000
Michael J. Tompkins	University of Wisconsin-Madison	Phillips Petroleum Scholarship #3	\$2000
Donald Walker	University of Oklahoma	Aubra Tilley Scholarship #4	\$1000
LiFeng Wang	University of Petroleum, Beijing	Phillips Petroleum Scholarship #6	\$500
Jonathan R. Weiss	University of Hawaii-Manoa	SEG General-Bay St. Louis Conference	\$1500
Paul Wilson	University of Birmingham	Ian Jack (University of Birmingham) Scholarship	\$5000
Jonathan Winsor	Memorial University of Newfoundland	Landmark Graphics Scholarship #8	\$1000
Kathleen Wooten	University of Virginia	SEG Endowed Scholarship-Softball Tournament	\$1000
Jianhua Xu	Tsinghua University	SEG International Scholarship #5	\$500
Lan Lan Yan	University of Calgary	Western Geophysical/Henry Salvatori Scholarship	\$5000
Rhonda Mae Yates	University of Memphis	ExxonMobil Scholarship #4	\$2000
Ken Yoshioka	University of Utah	Hohmann Memorial Graduate Scholarship	\$3000
Cleat P. Zeiler	Montana Tech	Landmark Graphics Scholarship #6	\$1000

SEG Geoscience Center

Gary Hoover, Chairman

The committee was active with several projects in progress during the past year. Committee members are Micki Allen, Norman Domenico, Craig Ferris, Guy Flanagan, John Gallagher, Jeff Johnson, Becky Hoover, John Knapp, Dennis Neff, Tony Lauhoff, Richard Schneider, Gene Sparkman, John Stockwell, Bob Stolt, Charles Wickstrom, and Bob Wyckoff. The committee works closely with Susan Henley, coordinator for the GSC. Walt Lynn, president-elect, serves as our Executive Committee liaison.

Traveling Museum

The Traveling Museum booth was assembled and operated at the Annual Meeting in Calgary in conjunction with the Canadian Exploration Geophysical Society (KEGS). Henley led the effort, assisted by KEGS representatives Micki Allen and Robert Hearst. The booth featured vintage geophysical equipment, video, paintings, good fellowship, and was the focus of considerable interest by convention delegates. The geophysical equipment on display, provided by KEGS, featured mineral exploration.

The Traveling Museum made several appearances at school functions this year to develop interest in geophysics among students and teachers.

Henley, Bob Wyckoff, and Lavona Wyckoff presented a Career Day program for Bryant Elementary School and for Science Day at Eugene Field School, both in Tulsa, Oklahoma. Henley, Leslie Seawright (Student Affairs Coordinator), and Kay Wyatt (Student Sections/Academic Liaison Committee) provided programs at the Green Country Science Teachers Workshop in Bartlesville, Oklahoma. Henley, Marv Hewitt, Charles Perry, and Bill Underwood manned a GSC booth at the Tulsa Engineering Challenge. Henley and Seawright provided a GSC booth at Energy Days in Bartlesville, operated by Becky Hoover for Phillips Petroleum. That booth featured a geophone time line, hands-on activities, and other museum items. Eleven hundred fifth-graders and 60 teachers were contacted over a five-day period. In total, more than 1800 students and 300 teachers were contacted on behalf of SEG during the past year.

Geoscience Center Projects

John Knapp continues to lead an effort to expand the Virtual Museum on the Web. Current projects include biographies of SEG presidents and historical anecdotes of geophysicists written by Ray Brown.

The museum area at the Geophysical Resource Center is being organized around geophysical themes. The themes are Acquisition (Bob Wyckoff), Processing (Jeff

Johnson and Bob Stolt), Interpretation (Dennis Neff), and Potential Fields (Guy Flanagan). Each area has a kiosk that has audio and video describing the basic geophysics and instruments. New exhibits in development include the Seismitarium, Karcher, and "LenaSeis." Updates and repairs are being made to others. The Founding Members "Rock Club" has been established to acquire rock/mineral and fossil specimens in order to build a great collection that students will enjoy seeing. Members are encouraged to contact Henley for donation information. The vintage instruments are being complemented with modern instruments and hands-on displays of modern geophysics in action. The displays and learning tools developed for teaching students are available to SEG Sections, schools, museums, and learning centers.

Three large, colorful, wall murals depicting geophysics in the swamp, desert, and ocean have been mounted on the wall outside the auditorium.

Other projects include an investigation into creating a short introductory educational video to use with center tours and the Traveling Museum's educational outreach program as well as the ongoing SEG Bricks for Geoscience Program. The first bricks in the Path of Discovery outside the doors of the Geoscience Center will be laid soon. Sponsorship commitments have been received from 100% of all living SEG past presidents, and many more from other distinguished members. The center would like to see all members sponsor this educational arm of SEG by having their inscribed brick on the path.

Geoscience Center Opening

An official opening of the Geoscience Center is scheduled for the second week of October to coincide with Earth Science Week in the United States and Canada. This will kick off the active use of the displays and exhibits in the center. School groups will be scheduled for tours and workshops. The public will be able to visit the center. With the help of the new A/V kiosks, visitors with no previous knowledge of geophysics will be able to learn the importance of geophysics to society.

The committee encourages anyone interested in helping develop the SEG Geoscience Center to contact us and become a part of its exciting growth and future plans that will enable us to continue to generate curiosity in young minds about geophysics.

Global Affairs

Samir Abdelmoaty, Chairman

The Global Affairs Committee (GAC) is the largest SEG committee both in membership and number of volunteers. During the current year, coordinators for the Canadian and U. S. regions have been established in

addition to the currently active seven regions. This year's regional coordinators are:

- Latin America Paul Cunningham
Mariangela Capello
- Africa George Smith
Tim Berge
- Middle East Dick Edwards
Hafiz Al-Shammery
- Asia Alfred Liaw
Ananda G. Pramanik
- Pacific Shane Coperude
Mike Smith
- CIS Tagir Galikeev
Alexander Zhukov
- Europe Simon Spitz
Aldo Vesnaver
- Canada Vladan Simin
Michael Enachescu
- U. S. Bill Barkhouse

There are currently more than 60 country representatives who are directly reporting to the regional coordinators. GAC is chaired this year by Samir Abdelmoaty, with Fred Aminzadeh as vice chairman and Ali Tura as the past chairman. Yoram Shoham, vice president, is GAC liaison to the Executive Committee.

GAC has been very active this year especially in the area of promoting membership internationally. The Council has approved the new Global Membership category and the Executive Committee has approved the reduced membership fees. GAC has worked also with the Committee on Nominations, and two of the GAC members, Fred Aminzadeh and Simon Spitz, have been nominated to the vice president office for the 2001-2002 term. Several agreements such as INDO 2002 and Cairo 2002 have been coordinated with the Executive Committee.

One major achievement of the GAC, thanks to the dedication and support of Aldo Vesnaver, is the establishment of the Italian Section as the first joint SEG/EAGE Section, which should be considered as a model example of the cooperation between societies.

GAC had its winter meeting in Houston, which was attended by Bill Barkhouse, past president of SEG and chairman of the Nominations Committee, Walt Lynn, president-elect, Yoram Shoham, vice president, and Richard Verm, secretary-treasurer. The outcome of this meeting included recommendation for the Global Membership fees and eligibility of countries in addition to the discussion of voting rights for the Global Members.

GAC plans to have its committee meeting on September 9 and to arrange four luncheons and speakers during the Annual Meeting in San Antonio:

- CIS/European, Peter Hubral
- Africa/Middle East, Kamal Al-Yahya

- Latin America/ULG, Sergio Paredes Glaria
- Asia/Pacific, Kardaya Warnika

GAC has also worked with the International Showcase Committee (IS) through Mike Burianyak, GAC/IS liaison, to promote the participation and sponsorship of the International Showcase. GAC coordinators and country representatives will serve as ambassadors to IS exhibitors.

The SEG Foundation has approved a grant to fund GAC's project, "Students and Computers." Alfred Liaw and Vladan Simin will coordinate the purchase and set up of computers, software, and Internet connections for existing SEG student sections in China to promote better communication and access to SEG's Web page and online publications.

GAC members have assisted in the promotion of the establishment of new international student sections and in the coordination of the DISC globally.

Vik Sen, GAC Web coordinator, has worked with Joe Dellinger, Online Governing Board chairman, to set up a model for SEG committee Web pages.

Both GAC of SEG and the International Liaison Committee (ILC) of AAPG are exchanging best practices and common issues through inviting representatives for each side to present their society's views. This year, Pinar Yilmaz, chairman of ILC, has attended both the winter and spring meeting of GAC, and I attended the ILC meeting in Denver.

GAC had a great year, thanks to all members and to the support of the Executive Committee. Special thanks to Pamela Terekhova, Global Affairs team manager, for her tireless efforts to keep GAC going around the year.

Gravity and Magnetics

Chuck Campbell, Chairman

Guy Flanagan, Vice Chairman

The committee convenes twice each year, once at midyear (June 2001 in Houston) and again at each Annual Meeting. The role of the committee in SEG and the exploration industry is to enthusiastically promote and expand the use of gravity and magnetics methods. Priority is given to projects that encourage integrated geophysics in exploration and projects that educate the membership about these useful and necessary tools. This report summarizes the committee's activities and plans with regard to SEG annual meetings, publications, awards, continuing education, and committee projects.

Our past year was a successful one, in spite of surprising trends in the industry as a whole. We are making progress in raising the level of awareness of gravity and magnetic methods throughout the exploration world. We have seen an amazing consolidation of acquisition technology in the past year and yet retained the highest

quality of service our industry has seen. We hope this continues unchecked into the future.

The 2000 Annual Meeting in Calgary was very successful and enjoyed a large mining industry attendance. This is of special importance to the Gravity and Magnetism Committee because these tools are an important part of the mining exploration tool kit. Committee activities at the convention included three technical sessions, a poster session, a luncheon, a workshop, and our committee meeting. The Gravity and Magnetism Committee sponsored a successful postconvention workshop, *The Crust and Its Structure*, convened by Guy Flanagan. In addition, an excellent poster session showcasing gravity and magnetism techniques was presented.

Since its beginning in January 1998, the *TLE* feature, "The Meter Reader," has continued to be a popular and well-read column. Continued thanks to Patrick (Pat) Millegan and Dale Bird for their efforts on the Gravity and Magnetism Publications Subcommittee. Our work to update SEG's first monograph, *Gravity and Magnetism for Geologists and Seismologists* by L. L. Nettleton, is continuing, led by Tom LaFehr and Stuart Hall. In addition, our science has continued to provide a steady flow of articles for both *TLE* and *GEOPHYSICS*, as well as online publications in the *GEOPHYSICS* Online section of the SEG Web pages. Our appreciation to those authors is immeasurable.

In the past year, the Gravity and Magnetism Committee pressed forward with plans to bring the de facto standard grid exchange format (GXF-3) to the SEG Technical Standards Subcommittee for consideration as an official standard. A report will be made at the Annual Meeting in San Antonio. Additional work proceeds to bring the ASEG standard (GDF-2) for point and line data forward for consideration and adoption as a de facto standard by the Gravity and Magnetism Committee at this year's convention. Special thanks are due for data standards to our subcommittee members: Alan Reid, Dave Pratt, Mike Norris, Ian MacLeod, Richard Hansen, Chuck Campbell, and Dale Bird.

Efforts are under way by Campbell and Nick Hoffman to bring the Gravity and Magnetism Committee Web pages into line with the new look for SEG pages. The pages offer information about the gravity and magnetism community, distribute information about the committee, and provide links to other gravity and magnetism oriented Web pages.

We applaud the efforts to provide and maintain the Internet mailing list server for gravity and magnetism discussions, and thank Lamont-Doherty Earth Observatory at Columbia University for its ongoing support. All who are interested in active participation and joining in Internet discussions with practicing gravity and magnetism specialists from around the world, including professionals from universities, research institutions, and natural resource exploration companies may join the Gravity and Magnetism User Group. To subscribe

send the following text "**subscribe grvmag-l <your email address>**" to: **majordomo@ldeo.columbia.edu**

Our committee's involvement in the planning of the Technical Program for the 2001 convention in San Antonio continues, with tentative plans for multiple technical sessions, a luncheon with an invited speaker, and a workshop. The committee supports and encourages Michal Ruder's excellent two-day course, *Gravity and Magnetism for Explorationists*, which will be held on the Saturday and Sunday prior to the convention.

While the Houston Society of Potential Field Geophysicists is not a direct part of our committee, we would like to acknowledge its ongoing efforts and continued provision of a bimonthly dinner meeting with interesting gravity and magnetism presentations. We would like to acknowledge the past chair, Mike Kowalski, as well as the present cochairs, Afif Saad and Bob VanNieuwenhuise.

2001 Gulf Coast Meeting and Geophysical Society of Houston 2001 Spring Symposium - May 8-10 Mike Graul, Cochairman Tury Turner, Cochairman

Symposium topic: *Reservoir Resolution through Comprehensive Use of Seismic Data Attributes*

The symposium topic attracted some 160 attendees for the two-and-a-half-day event. Thirty papers were delivered in five sessions, each followed by a panel discussion. The panel comprised the speakers and chairmen for that session. Audience participation was lively and widespread, thanks to the efforts of microphone-wielding host Roy Clark.

Each attendee received a notebook containing the agenda, expanded abstracts, and a supply of notepaper. A buffet lunch was served on the first two days, and speaker breakfasts were provided. All papers were single-screen Power Point presentations. To provide clear visibility from all seats, the slide images were projected on well separated screens simultaneously. This proved a useful innovation. The symposium was held at a commercial ballroom facility, and catered by the proprietors. This was a departure from the usual protocol in which these events are held in hotels. The motivation for this change in procedure was that every contacted hotel refused to reserve their facilities, on the advertised dates, earlier than 30-40 days out without a minimum number of room reservations. The committee felt it was too great a risk.

Presentations were copied for later transfer to CD which will be sent to all attendees along with a registration list. One paper was denied copying permission.

The registration fee was \$195, with discounts for student attendees and for partial attendance. Total income for the event was \$28 616.46. Expenses of

\$17 787.70 will increase slightly due to the CD burning and related mailing costs. A donation of \$500 from CMS Energy supplemented the fee income.

Special commendation must go to committee members: Cheri Williams, Lloyd Weathers, Jim Schuelke, and Susan Graul. Their efforts were of immense value.

A listing of the symposium agenda follows.

May 8

Session 1: *Tutorials and Technical Advisories*

Chairs: Norman S. Neidell and C. Williams

- Neural networks and their applications: a tutorial review—Tury Taner
- A tutorial review of seismic attributes and their applications—Tury Taner
- Seismic characters and seismic attributes to predict reservoir properties—Fred Aminzadeh
- Correlating lateral variations in attributes and Fourier components to a thin bed model for enhancement of parameter estimates—R. Lynn Kirlin
- Safety tips for going from seismic attributes to well log data through neural networks—R. Banchs
- Don't rush to prediction—pitfalls of seismic attribute analysis—Stanley V. Morris

Panel Discussion

Luncheon Speaker: Sally G. Zinke, SEG president 2001

Session 2: *Interpretation and Visualization*

Chairs: Tury Taner and Simon Spitz

- A new methodology based on seismic facies analysis and litho-seismic modeling.
- The Elkhorn Slough field pilot project, Solano County, California—M. Poupon
- Using hybrid seismic attributes to differentiate lithologies and facies in a deltaic system, Texas Gulf Coast—T. Mitchell
- Seismic attributes in volume interpretation—Elizabeth A. Lore Harvey
- Gas chimney processing and analysis—Fred Aminzadeh
- Seismic texture attributes; visualization and interpretation: an overview—Dengliang Gao
- The applications of neural networks to predict reservoirs, gas content, and secondary migration routes: a case history from Ibhuesi Field, Orange Basin, South Africa—Timothy B. Berge

Panel Discussion

May 9

Session 3: *Reservoir Properties and Seismic Response*

Chairs: James S. Schuelke and Josef Paffenholz

- Integrated seismic facies analysis of the Plio-Pleistocene turbiditic sand reservoir in East Breaks 112, 156-157, Gulf of Mexico Basin—F. Budhijanto

- Fizz water and low gas saturated reservoirs—De-Hua Han
- Optimal hydrocarbon indicators—Michael L. Batzle
- Modeling sedimentation caused by water currents with current laws, log patterns and 3-D seismic attributes—R. Allen
- 3-D seismic inversion to construct a high-resolution earth model—Rajendra K. Shrestha
- The use of heuristically determined elastic moduli of constituents of rocks: prelude to modeling various reservoir conditions—Alvaro G. Chaveste

Panel Discussion

Session 4: *AVO Attributes and Rock Properties*

Chairs: Howard Sklar and F. McIntosh

- What's new in AVO? 3-Parameter example for the GOM—Albert L. Frisillo
- Constrained AVO analysis—M. Kelly
- Reservoir analysis using seismic derived rock properties—C. Skidmore
- Improving the effectiveness of AVO predictions with artificial neural networks—C. Ross
- Beyond bright spot interpretation; elastic impedance interpretation of Class II sand—Terence J. Cosban
- Reservoir characterization using 3-D AVO and 3-D net sand prediction—C. Skidmore

Panel Discussion

May 10

Session 5: *Preview: Applications and Case Histories*

Chairs: Mark A. Bronston and James M. Drummond

- On the universality of diagenetic trends—Jack Dvorkin
- An integrated study of the Liuhua 11-1 field using an ultra high resolution 3-D seismic data set: South China Sea—C. Story
- Elastic parameters estimated from seismic data and their relationship to lithology, porosity, and fluids as modeled from well logs: a South African case study—Alvaro G. Chaveste
- Sendji Formation reservoir delineation based on 2-D and 3-D inversion, Yombo Field, offshore Congo—John E. Van Horn
- Comprehensive seismic attribute analysis applied to infill drilling: A turbidite case study, Solano County, California—Terence J. Cosban
- Estimation of petrophysical properties using multiple attributes: field data example—M. Perez

Panel Discussion

Honors and Awards

Gordon M. Greve, Chairman

One of the most important functions of SEG is honoring those who have made significant contributions to

the science and profession of exploration geophysics. By unanimous agreement of the Honors and Awards Committee and Executive Committee, the 2001 honorees are:

Maurice Ewing Medal: Enders A. Robinson on the 50th anniversary of his firsthand-digitized deconvolution results. Enders' efforts created a revolution in seismic data analysis that continues to this day. Enders is also recognized for his tireless efforts in teaching the methods of deconvolution to countless numbers of geophysicists around the world.

Honorary Membership: Robert J. Garotta for his pioneering work and outstanding contributions leading to the successful utilization of converted shear waves both on land and marine environments.

Gerald (Gary) M. Mavko for his deep understanding of rock physics and for the distillation of his ideas into the "squirt" theory for porous, saturated rocks; and, for extending the theory for predicting attenuation of P-waves relative to S-waves in gassy sediments.

Douglas W. Oldenburg for his fundamental research in inverse theory in both the mining and petroleum industries; and for his outstanding efforts in education.

Virgil Kauffman Gold Medal: Patrick Connolly for his development and verification of the elastic impedance (EI) technology as a means of calibrating seismic amplitude to elastic properties in order to distinguish lithologic from pore fluid effects.

Enterprise Award: Aubra E. Tilley for the founding and development of Input/Output, which is now one of the premier manufacturers of seismic equipment.

Reginald Fessenden Award: No 2001 award.

J. Clarence Karcher Award: Sergey B. Fomel for his numerous theoretical contributions in seismic imaging, constrained optimization, azimuth/offset/velocity continuation, converted-wave processing and analysis, nonstationary interpolation and prediction, and anisotropy.

Muhammad M. Saggaf for his significant contributions in the fields of seismic deconvolution and seismic reservoir characterization.

Life Membership: Joe A. Dellinger for his untiring efforts and advice in launching the SEG Web site, setting up electronic publishing standards, and electronic submission of papers to GEOPHYSICS and Expanded Abstracts.

Joseph H. Rosenbaum for his wholehearted and gifted support of the research activities of SEG. Joe's broad grasp and good taste helped focus on the most important issues and in identifying the knowledgeable presenters.

Special Commendation: Horst Rüter for his many contributions to the understanding of seismic wave transmission in cyclic layered media and his development of the first certified "intrinsically safe" seismic recording instruments for use in coal mines.

Distinguished Achievement: The Laboratory of Seismics and Acoustics at Delft University for its numerous contributions such as the unified theory of acquisition, processing, and inversion; physical modeling; multiple removal; prestack depth migration; and velocity-independent imaging.

Best Paper in GEOPHYSICS 2000:

On unified dual fields and Einstein deconvolution

Dan Loewenthal (posthumously) and Enders A. Robinson

Honorable Mentions (GEOPHYSICS)

3-D prestack Kirchhoff beam migration for depth imaging

Yonghe Sun, Fuhao Qin, Steve N. Checkles, and Jacques P. Leveille

Shear-wave velocity and density estimation from PS-wave AVO analysis: Application to an OBS data set from the North Sea

Side Jin, Guillaume Cambois, and Claude A. Vuillemoz

Phase encoding of shot records in prestack migration

Louis A. Romero, Dennis C. Ghiglia, Curtis C. Ober, and Scott A. Morton

Drill-bit signal separation for RVSP using statistical independence

Flavio B. Poletto, Fabio L. Rocca, and Luca Bertelli

Best Paper in THE LEADING EDGE 2000:

Time-lapse seismic surveys in the North Sea and their business impact

Klaas Koster, Pieter W. Gabriels, Matthias Hartung, John Verbeek, Geurt Deinum, and Rob Staples

Honorable Mention (TLE)

Using legacy seismic data in an integrated time-lapse study: Lena Field, Gulf of Mexico

David H. Johnston, John E. Eastwood, Jung-Gi (Jane) Shyeh, Robert J. Vauthrin, Mashiur Khan, and Larry R. Stanley

Best Paper Presented at the 2000 Annual Meeting:

Developing an exploration tool in a mature trend: A 3-D AVO case study in south Texas

Mark E. Gregg and Charles T. Bukowski Jr.

Best Poster Paper Presented at the 2000 Annual Meeting:

A model to relate P-wave attenuation to fluid flow in fractured tight gas sands

Jorge O. Parra, Chris Hackert, and Pei-Cheng Xu

Best Student Paper Presented at the 2000 Annual Meeting (tie):

A study of near surface seasonal variability using Rayleigh wave dispersion

Kristen S. Beaty, University of Alberta, Canada

Multimodal investigation of geoscientific data—adding touch and sound to 3-D visualization of surface based data

Chris Harding, University of Houston

Awards of Merit (tie):

Approximate reflection coefficients of P-S waves in anisotropic media

Petr Jilek, Colorado School of Mines

Filter bank decomposition of seismic data with application to compression and denoising

Laurent Duval, Institut Français du Pétrole, France

Best Student Poster Paper Presented at the 2000 Annual Meeting:

Combined vertical-incidence and wide-angle seismic study of deepwater bright spot reflections

Christian Müller, University of Kiel, Germany

On behalf of the Honors and Awards Committee, I extend congratulations to the distinguished recipients of these honors and awards and thank them for their contributions. The Honors and Awards process succeeds by receiving nominations from individual SEG members, SEG committees, and SEG sections and associated societies. We thank all who submitted nominations for 2001 awards and who provided supporting letters and other documentation. Nominations for those who were not selected will be retained for consideration by future Honors and Awards committees.

The Honors and Awards Committee comprises the past five SEG presidents: Gordon M. Greve, Fred J. Hilterman, Rutt Bridges, Brian H. Russell, and William (Bill) N. Barkhouse. I thank my fellow committee members for their diligent and thoughtful efforts in researching and considering the nominations for SEG's awards as this process has consumed many hours of their time during 2000-2001. Chairing this committee concludes my presidential obligations to the SEG, and I sincerely appreciate the opportunity to have been part of SEG's leadership during the past seven years.

Interpretation

Gary Yu, Chairman

The SEG Interpretation Committee convenes routinely at least twice each year with its sister committee, the American Association of Petroleum Geologists' (AAPG) Geophysical Integration Committee (GIC)—once at the SEG Annual Meeting and once at AAPG's convention—to

exchange ideas, plan projects, and pursue mutual interests. Additional meetings can be called by the chairman to discuss special events and urgent needs. The role of the Interpretation Committee (IC) is to enthusiastically advance and expand the methods, technologies, and tools to improve interpretation quality and to benefit the geologic and geophysical interpretation community. This has been achieved by: (1) encouraging our members, interpreters at large, and companies to publish their case histories in society journals and conventions; (2) promoting continuing education; and (3) organizing workshops. The IC is aware of today's competitive environment and wants to be the sounding board of what interpreters want, the conduit of providing what services they need, and the catalyst of making their jobs easier.

The committee is truly an integrated committee; our members come from many disciplines and practice skills to face various challenges of exploration and production. As a matter of fact, many members are in both SEG and AAPG and are on both committees. The IC is very active in helping its constituents. Fortunately, we have quite a few active members who publish papers and books, organize workshops during the annual conventions, and/or promote intersocial activities with the Society of Petroleum Engineers (SPE) and the Society of Professional Well Log Analysts (SPWLA). Without them, the IC would not be where it is today. Nevertheless, we are always looking for new ideas and people willing to contribute their time and help.

The IC projects with AAPG GIC last year included:

Publications

- *Geologic Applications of Gravity and Magnetics: Case Histories*. The sales of the joint SEG-AAPG publication have been brisk. The initial print run in 1998 was about 1700 copies, and more than 1200 have been sold.
- A compilation of Geologic Column entries in *THE LEADING EDGE* from January 1998 forward is in production as an SEG book. AAPG has been invited to join the project as copublisher.
- *Pitfalls in Interpretation*—Several articles were published and others are in the pipeline. Online *Pitfalls* was set up at the SEG Web site but need volunteers to maintain and contribute more in seismic acquisition, seismic processing, time/depth conversion, and interpretation techniques.
- *Surface Exploration Case Histories*—All papers for this publication have been received, and the book is in production as a joint AAPG-SEG project.

Workshops

- *Pitfalls and Solutions in Seismic Interpretation*. The IC sponsored it for the 2000 Annual Meeting with eight speakers.
- *Pitfalls in Acquisition and Processing*. It was proposed for the 2001 Annual Meeting.

- *Interpretation 2001*. It was proposed for the 2001 Annual Meeting.

Education

- Seismic Interpretation Study Set. Public and donated seismic data were loaded into all major workstation platforms (Unix and PC environments). Use of these data is free to colleges and universities for education purposes but not for oil companies. Interested colleges and universities can contact the SEG IC and AAPG GIC.
- Michigan Tech Interpretation Course. It is funded by the SEG Foundation. The first course is expected to occur in August 2001. University students who may not have access to interpretation courses are the main potential participants.

All who are interested in active participation and joining discussions in meetings with interpreters from all over the world, including professionals from universities, research institutions, and E&P companies, can join the SEG Interpretation Committee. Please feel free to contact me at gary.yu@totalfinaelf.com. I would like to hear your suggestions.

Membership

Russ Opfer, Chairman

It has been my pleasure to serve the SEG as Membership chairman this past year. I would like to take this opportunity to thank the past chairman, Howell Pardue, for preparing me for this position. Howell will be taking on a new position as AAPG liaison for SEG, a position that complements the work being done by the Membership Committee.

Before accepting the chairmanship, I gave a great deal of thought to the goals that we would achieve during my two-year term. My primary goal as Membership chairman is to encourage as many members of the local sections to also be members of the international organization, and vice versa. This will strengthen our professional community and advance geophysical technology.

Of the 13 sections who provided their membership data to SEG, on average, 41 percent of the local chapter members were also members of SEG. This means that 59 percent of the local sections are not SEG members. Because SEG has more than 17 000 members (see figure below), this would imply that there are 7000 local section members who are not SEG members. Likewise, we probably have a similar situation relative to local chapters. This is where the local sections and SEG must work together, for this task cannot be completed without teamwork.

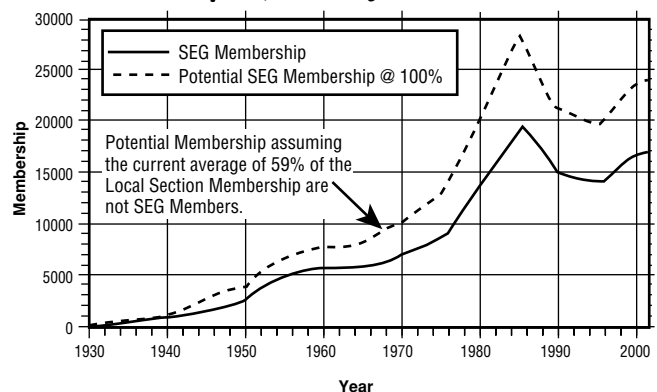
How can we best accomplish this goal? In the past, the Tulsa Business Office has taken on the responsibility

of providing SEG membership data to the officers of the local sections and, in return, some of the local sections have provided their membership information to SEG. This task has been left to volunteers in the local sections to handle without data resources.

One obvious solution is a database management tool that can be put into the hands of the local sections that will have the ability to identify missing members from each list. Earlier this year, I submitted a budget to the SEG Executive Committee for funds to develop such a database program. Unfortunately, this budget was not approved due to insufficient support from the local sections. Currently it is my intention to explore other ways to achieve our goal, and I plan to lobby for local section support for the database project.

I firmly believe that the local chapters and SEG must work together. Prior to the Annual Meeting in San Antonio, I will be contacting the local chapters to solicit help. I trust that each section will assign a representative to participate on the SEG Membership Committee so that, together, we can optimize joint membership, resulting in a stronger and more cohesive geophysical community locally and internationally.

**TOTAL and Potential SEG MEMBERSHIP
as of May 31, 2001 – June 1930 - 2001**



Mining and Geothermal

Ken Witherly, Cochairman

Dick West, Cochairman

The highlight of the last year for the Mining and Geothermal Committee was the excellent program and turnout of the global mining community for SEG's Annual Meeting in Calgary. Despite the continued poor state of the minerals industry, more than 200 mining-oriented geoscientists found their way to the famed foothills city for an outstanding six days of technical talks, booth hopping, barbecues, and general networking. Since 1996, the Mining and Geothermal Committee has intentionally focused on bringing a strong mining

presence to every other SEG Annual Meeting. The committee is looking forward to continuing this tradition into Salt Lake in 2002 and then back to Denver in 2004.

Other activities the Committee was involved with during the year included:

- **SEG Honors and Awards:** Various members of the committee worked at identifying and supporting nominations for a number of the various awards to honor those members who have made significant contributions to SEG and to the geophysical community. In 2000 it was most pleasing to see two members with strong ties to the mining community win SEG awards; Stan Ward received SEG's most prestigious personal award, the Maurice Ewing, and Peter Annan received Honorary Membership. Additionally, the University of Toronto was awarded SEG's Distinguished Achievement Award for its enormous contributions to exploration geophysics in the last century.
- **Collaboration with other geoscience/industry groups:**
 - Cosponsorship *Global Exploration 2002* in April 2002 with the Society of Economic Geologists.
 - Ongoing discussions with geophysical friends of the Northwest Mining Association and British Columbia Geophysical Society regarding how best to sustain an acceptable level of professional geophysical interaction within the western region of North America
 - Collaboration with Canadian Exploration Geophysics Society (KEGS) on the Annual Meeting in Calgary.
 - Organized International Airborne Geophysical Survey Association (IAGSA) talk for Calgary 2000
- **Web Site:** Past chairman Alan King has spearheaded the committee's effort to establish a unique Web presence for the Mining and Geothermal Committee. King is optimistic that a Web "home" will be established before year-end.
- **List Server:** The committee's list server, kindly hosted by Geosoft, was established in 1999 and continues to serve as a useful portal for the global mining community to keep in touch. For information on how to sign up on the list server, please contact ken@condorconsult.com.
- **Committee Meetings:** Two meetings have been held by the committee in the last year, one in conjunction with the SEG Annual Meeting in Calgary and a second at the time of the Prospectors and Developers meeting in Toronto last March.
- **Current Activities:** Early planning has begun for the 2002 SEG Annual Meeting in Salt Lake City. A draft program and call for support from the membership will be made later in the year.

Committee on Nominations

Bill Barkhouse, Chairman

The Committee on Nominations consists of SEG's most recent three past presidents plus four Active Members each representing an SEG section or associated society. The immediate past president serves as chairman. Each year two of the four Sections/Associated Societies representatives are replaced through a drawing conducted by the Tellers Committee. This year's members included past SEG presidents Bill Barkhouse (chairman), Brian Russell, and Rutt Bridges, plus Section/Associated Society representatives Perry Kotkas, Canadian SEG; Ki Ha Lee, Korean SEG; Lularyde Mercedes Moreno from the Sociedad Venezolana de Ingenieros Geofisicos; and Yilmaz Sakallioğlu from the Chamber of Geophysical Engineers of Turkey.

Suggestions for candidates come from a variety of sources, ranging from members of the Committee on Nominations to past and present members who have been active in various SEG activities. The Committee on Nominations meets at the Annual Meeting and conducts most of its activity by e-mail. We had excellent and enthusiastic responses from the following nominees submitted for SEG office:

President-Elect	Michael S. Bahorich Lynne J. Edleson
First Vice President	Craig J. Beasley David E. Lumley
Second Vice President	Alan R. King Rosemary J. Knight
Vice President	Fred Aminzadeh Simon Spitz
Secretary-Treasurer	John R. Sumner Terence K. Young
Editor	Gérard C. Herman

No candidates were nominated by petition for this election cycle. I would like to thank my fellow committee members for the long hours and thoughtful consideration they put into the selection and recruitment of this outstanding slate of candidates.

Online Governing Board

Joe Dellinger, Chairman

This was a mixed year for SEG. Several long-term employees in the Web staff and IT support elected to

move on, which has delayed some projects as new employees take time to learn the systems. The project to produce a complete, accurate, and comprehensive digital cumulative index database is not yet complete but should be finished by the end of the year. SEG was able to produce and release a version of the bibliographic database for use with TeX/BibTeX (a freeware document preparation system popular among academics). SEG.bib database is now available for downloading from the SEG Web site.

Revenue from online advertising stopped increasing last year and has remained stagnant. Undoubtedly this is another manifestation of the general backlash against Internet advertising in the wake of the collapse of the Internet bubble in 2000. The Finance Committee may have to reconsider its projections of online revenue as a result; it is not yet clear when revenue might start to increase again.

The SEG staff has successfully used the information from the historical GEOROM product to produce a complete database of text and page images for GEOPHYSICS, THE LEADING EDGE, and the Expanded Abstracts, complete from each publication's inception through current issues. This will enable SEG to release new versions of GEOROM and the Expanded Abstracts Historical Series CD-ROM products in time for the SEG San Antonio 2001 Annual Meeting. The same information also will be used for placing historical GEOPHYSICS, TLE, and Expanded Abstracts online.

The online Expanded Abstracts will be hosted on the SEG Web site and will be freely available. GEOPHYSICS and THE LEADING EDGE also will be available online, under terms that have not yet been fixed. Rather than building and maintaining the necessary infrastructure in house to do this, SEG has selected the American Institute of Physics to host these online publications on its behalf. This should enable SEG to keep abreast of the most up-to-date technology for electronic presentation and delivery of documents. Current and future articles will be fully integrated into the AIP's systems, providing much greater functionality than mere scanned images of a hardcopy page.

The longer-term challenge remains the same: managing the slow transition from paper to electrons and reaping the advantages of online technology for our membership without unacceptably cannibalizing the SEG's revenues along the way.

Publications

Larry Lines, Chairman

The Publications Committee is responsible for working with the SEG Publications staff to produce all Special Publications other than GEOPHYSICS and THE LEADING EDGE. Our objective is to provide exploration geophysicists with the technical geophysical information they require

in their jobs or studies. This report summarizes those books recently published, those which are to be published in the near future, and gives a financial summary of revenues from publications.

Books published in fiscal year 2001 include:

- *Seismic Data Analysis: Processing, Inversion, and Interpretation of Seismic Data*, by Öz Yilmaz
- *Planning Land 3-D Seismic Surveys*, by Andreas Cordsen, Mike Galbraith, and John Peirce
- *Applied Seismic Anisotropy: Theory, Background, and Field Studies*, edited by Colin MacBeth and Heloise B. Lynn
- *Seismic Wave Propagation: Collected Works of J. E. White*, edited by Dan Ebrom
- *Geophysical Signal Analysis*, by Enders A. Robinson and Sven Treitel (reprint of a book formerly produced by another publisher)
- *Seismic Amplitude Interpretation*, by Fred J. Hilterman
- *The Boundary Element Method in Geophysics*, by Shi-zhe Xu
- *Anisotropy 2000: Fractures, Converted Wave, and Case Studies*, edited by Luc T. Ikelle and Anthony S. Gangi
- *SEG/Calgary 2000 Technical Program Expanded Abstracts*

Books expected to be published by SEG/San Antonio 2001

- *Geophysics in the Affairs of Mankind*, by L. C. (Lee) Laywer, Charles C. Bates, and Robert B. Rice
- *Advances in Anisotropy: Selected Theory, Modeling, and Case Studies*, edited by Julie A. Hood
- *3-D Seismic Exploration*, edited by Robert J. Graebner, Bob A. Hardage, and William A. Schneider
- *SEG/San Antonio 2001 Technical Program Expanded Abstracts*

Publications Manager Ted Bakamjian reports that SEG reference publications revenue was \$689 416 for fiscal year 2001. Reference publications have realized a loss of \$70 556. SEG has more than 100 books in print, and its publications portfolio also includes videotapes, slide sets, computer programs, and CD-ROM sets.

The Publications Committee consists of a number of dedicated individuals who generously donate their time and efforts to SEG publications. These committee members, along with editors, book authors, and SEG Publications staff allow the publication process to work efficiently. The series editors include the following individuals:

- Cynthia Menant Berlier, Slide Sets
- Michael R. Cooper, Investigations in Geophysics
- Dan Ebrom, Geophysics Reprints
- David Fitterman, Geophysical Monographs
- Steve Hill, Geophysical Developments

- Gene Scherrer, Geophysical References
- Ilya Tsvankin, Translations Committee Chairman
- Roger Young, Continuing Education Course Notes

Research

Ali Tura, Chairman

The Research Committee (RC) has reduced its membership to 80, and several young bright researchers have joined our committee. Our 2000 fall meeting, joint with the EAGE RC, was held in Calgary during the SEG Annual Meeting. Our 2001 winter meeting was held in Austin, Texas. A joint EAGE/SEG RC meeting was held during the 2001 Amsterdam EAGE meeting. Detailed information on the RC and our workshops is available at our Web site: <http://www.seg.org/research>

2000 SEG/EAGE Summer Research Workshop, October 1-6, Boise:

Recent advances in shear wave technology for reservoir characterization: A new beginning?, chaired by Reinaldo Michelena and Colin MacBeth, organized by Jim Gaiser, Nick Moldoveanu, and Simon Spitz. Attended by nearly 100 members. Sixty percent of the attendees were from abroad. Also, 50% were contractors, 40% were oil companies, and 10% were from academia and national laboratories.

2000 SEG Calgary Post Convention Workshops:

- *Using converted waves for lithology and fluid discrimination and interpretation*, organized by Ron Ward and Mrinal Sengupta
- *Grains, pores, and fluids: Beyond Gassmann*, organized by Randy McKnight and Nader Dutta
- *Instrumented oil fields: The next step*, organized by Guillaume Cambois, Ali Tura, Kurt-Martin Strack, and Leon Thomsen
- *Advances in electromagnetic methods for petroleum applications*, organized by Kurt-Martin Strack, Geoff Dorn, and Michael Schoenberg
- *Definition of attributes for rock physics parameters*, organized by Larry Myer and Fred Aminzadeh
- *Quantitative time-lapse geophysics: Obtaining dynamic reservoir parameters*, organized by Leon Thomsen
- *Seismic sources and marine mammals*, organized by Jack Caldwell

In addition, *Recent Advances and Road Ahead* was organized by Kurt-Martin Strack and Yoram Shoham.

2001 EAGE/SEG Summer Research Workshop, April 30-May 3, Pau, France:

Reservoir Rocks. Steering committee was Rodney Calvert, Gérard Herman, Lawrence Nicoletis, Mihai Popovici, Michael Schoenberg, Kurt-Martin Strack, and

Bjørn Ursin. The workshop was attended by about 150 researchers.

2001 SEG Summer Research Workshop, July 22-26, Newport Beach:

Synergies in Geophysical, Medical, and Space Imaging, chaired by David Lumley, organized by Rob Clayton, Geoff Dorn, Bob Stolt, Maarten de Hoop, Stewart Levin, Paul Rosen, and Victor Spitzer.

2001 SEG San Antonio Post Convention

Workshops planned are:

- *Velocity model independent imaging for complex media*, organized by Panos Kelamis, Ray Ergas, and Fred Aminzadeh
- *Elastic rock properties—The inversion of the seismic vector field*, organized by Reinaldo Michelena, Mrinal Sengupta, Simon Spitz, and Leon Thomsen
- *Wide azimuth seismic—True 3-D at last*, organized by Shuki Ronen, Guillaume Cambois, and Xianhuai Zhu
- *Beyond Kirchhoff imaging*, organized by Biondo Biondi and John Etgen
- *Changing the way we work: E-business and the Internet*, organized by Steve Cole, Kurt-Martin Strack, Biondo Biondi, and Ali Tura
- *Gravity gradiometry practical issues*, organized by Manik Talwani, Ed Biegert, and Yoram Shoham

In addition, *Recent Advances and Road Ahead* will be organized by Fred Aminzadeh and Bob Tatham.

Geophysics Y2K Articles:

Sven Treitel has been doing an excellent job at soliciting, editing, and publishing the Y2K review articles. Articles to be published in *GEOPHYSICS* received so far are:

- *Fundamentals of rock physics*, by Zhijing (Zee) Wang
- *Seismic migration problems and solutions*, by Sam Gray, John Etgen, Joe Dellinger, and Dan Whitmore.
- *Seismic modeling*, by José Carcione, Gérard Herman, and Fons ten Krode
- *Neural networks as an intelligence application tool*, by Mary Poulton

Other publications to follow.

Other activities:

- The SEG/EAGE model data set tapes have been delivered to the SEG Business Office in Tulsa. The committee is in the process of finding funding for storage and distribution of these data.
- An issue currently being considered is how funding could be provided to the geophysical community, such as contractors and universities, to process a particular field data set that is of interest to research. The contractors and universities may not be motivated to spend their research money on

processing a particular data set to compare different methods and algorithms. If such a funding could be provided, it would make it easier for contractors and universities to process such data.

- The RC has formed a subcommittee considering costs involved in running a summer research workshop led by Kurt-Martin Strack. The objective is to look at relevant costs and suggest ways to minimize workshop costs.

Reviews

Paul Docherty, Chairman

The goal of the Reviews Committee is to provide timely and critical reviews of geophysical and exploration-related publications to assist members in selecting state-of-the-art literature to enhance their professional skills. Reviews appear in *THE LEADING EDGE*. During the reporting period (June 2000-May 2001) a total of 22 books were reviewed by 19 reviewers from seven different countries, with several popular books receiving multiple reviews.

The practice of soliciting reviews electronically continues with 88 members currently receiving a monthly notice of recent publications. Reviewers request books by e-mail and are encouraged to submit their reviews by e-mail also. Interested members are invited to participate by contacting pdocherty@fairfield.com.

Once again the committee extends its thanks to Merrily Sanzalone of the SEG Business Office in Tulsa for smoothly handling communications with publishers, and to Fairfield Industries for support in delivering books to reviewers around the world.

SEG Student Sections/Academic Liaison Committee

Kay Dautenhahn Wyatt, Chairman

This has been a busy year for the SS/AL Committee. We were very fortunate this year with the appointment of Leslie Seawright in January as our full-time SEG student affairs coordinator. Much of the progress this year is the result of her enthusiastic and dedicated efforts. Leslie certainly hit the ground running!

I am happy to say that this year we have seen a significant increase in the number of student sections. We currently have 97 student sections, an increase of 15 student sections since May of 2000. This increase is largely from universities outside of the United States, and a large round of applause goes to the Global Affairs Committee which is responsible for recruiting many of these student sections.

The SS/AL Committee is working hard to better

address the needs of the growing student community. One way is the newly introduced "Student Section Advocate Program." We are actively soliciting SEG members to serve as a student advocate for the student section of their choice. The advocate can help ensure that SEG is adequately meeting the needs of their sponsored student section.

This year, a career survey was initiated in order to give SEG a better picture of our students' demographics in respect to their current job hunting processes and the industries in which they are most interested. We also hoped to get ideas as to how SEG can better help them in their career planning, from initial discipline selection through job placement. More than 80 responses to the career survey were received from 19 countries around the globe. Of those that responded, 47% were Ph.D. students, 33% Master's students, and 20% bachelor's students in geophysics (75%), geology (19%), and other fields (6%) such as geochemistry and petroleum engineering. The results of this survey were most useful and the SS/AL will be working hard to implement many of their suggestions.

One of these efforts is the new SEG Student Employment Page which will be announced at the 2001 SEG Annual Meeting. We hope that this will provide a better electronic means for students to connect to potential employers, and better enable employers to find the graduate to fit their needs.

The 2000 AAPG/SEG Student Expo last October was a great success. Last fall, 150 students from 50 universities attended this event which is designed to connect students to prospective employers for both full-time and internship positions. Students gave poster presentations with 14 company representatives and 49 industry guests conducting interviews of potential candidates. A total of 12 full-time positions and 4 internships were offered to students at last fall's Expo. Planning is well under way for the next Student Expo scheduled for September 30-October 1, 2001.

Other activities the SS/AL Committee organizes for our student membership are:

- With the help of editor, Alison Begeman, SEG and the SS/AL publish the student newsletter, "The Anomaly," three times each year, (spring, summer, and fall). We sincerely appreciate Alison's hard work in making this valuable resource available to students.
- Under the direction of Subcommittee Chairman, Raghu Chunduru, the SS/AL sponsors the student paper competition. The winners of the 2000 competition can be found on the SEG Student Connection Web page at students.seg.org.
- The SS/AL Committee, together with the Annual Meeting Steering Committee and the SEG Business Office, organizes and hosts the Annual Student Reception. This year, we again held our traditional

karaoke contest, which was great entertainment.

- This is the second year that the SS/AL Committee sponsored the Student Connection Booth at the Annual Meeting. A great number of members volunteer to make this activity a very useful resource to students and faculty each year.

In addition to activities above, the SS/AL Committee also works hard in recruiting young folks into the geophysics profession and develops geophysics education materials for high school juniors and seniors and for elementary school grades 4 and 5.

Through the hard work of Kathleen (Kay) Aikin and her team, SEG has just printed a new career brochure "Journey into the Earth." This brochure is distributed to those who are making career decisions who might have an interest in math, physics, and geology. Kathleen and her team are now working hard on updating SEG's career poster this coming year. Thanks to Kathleen and her team for their hard work.

This year, SEG's prototype CD, "Seeing the Unseen," has been distributed to numerous teachers, students, and SEG members. We are collecting their feedback in order to polish the content for an official delivery. The JAVA-based exploration seismology "game" with animation and exciting sound effects is currently under development for the "official" delivery of the CD, as are movie clip interviews with working geophysicists planned for the 2001 Annual Meeting.

Another ongoing K-12 program is the sponsorship of the International Science and Engineering Fair. SEG is a strong supporter of the ISEF and provides judges and cash awards in the "Special Awards" division. Subcommittee chairman, Doug Wyatt, and volunteer, John Northwood reviewed 1205 projects created by 1377 students from 38 countries. Environmental sciences or engineering were the largest percentage of projects this year at 28 percent of the total number. Earth and space sciences were one of the smaller categories with only 4 percent of the projects. Twenty-one students were interviewed and seven were selected as our SEG award winners. A total of \$3000 in SEG awards was presented. What better way to meet some of the world's best and brightest young minds. You can read more about the ISEF in the August issue of *THE LEADING EDGE*.

We also are pleased to announce that the SEG K-12 slide sets (available at students.seg.org) have now been translated from English into German, Spanish, French, and Arabic! We continue to get feedback from SEG members who have found this to be a valuable resource when sharing their profession with kids of all ages.

Through the efforts of numerous dedicated volunteers and the SEG staff, these activities are contributing significantly to the health and welfare of the Society of Exploration Geophysicists. My sincere thanks to all of them!

Technical Standards

Alan Faichney, Chairman

SEG Y rev 1

The original SEG Y Data Exchange Format (revision 0) was published in 1975 and has achieved widespread usage within the geophysical industry. This widespread usage has also brought about many proprietary variations. Since the initial publication of SEG Y rev 0, the nature of seismic data acquisition, processing, and seismic hardware has changed significantly. The introduction of 3-D acquisition techniques and high speed, high capacity recording media dictate that changes be made to the SEG Y rev 0 format. The changes are principally addressed at standardizing the location of header information needed for current processing practices, defining a SEG Y data set as a byte stream format, and adding format structure to accommodate high capacity storage media.

The PESGB Data Management Group performed a great deal of work in revising the original SEG Y, and at the 1999 Technical Standards Committee meeting it was agreed that the Technical Standards Committee would take their revision through the SEG Standards approval process once they had completed their work.

This year, the final PESGB draft has been incorporated into a draft SEG Y revision 1 format, and the approval process started, seeking public comment from a very wide group of experts.

As a result of comments received, several further revisions have been added, most notably support for multicomponent data, support for engineering units, and support of ASCII as well as EBCDIC encoding. The draft has been reissued for public comment, and it is anticipated that the final revision will be presented for approval at this year's meeting of the Technical Standards Committee.

Technical Standards Web Page

The Technical Standards Web page at the SEG's Web site has been expanded to include MS Word and PDF versions of the existing SEG technical standards. Additionally, United Kingdom Offshore Operators Association (UKOOA) has granted permission to make some of its seismically related standards available at no charge and to allow links from the SEG Web site.

Grid Exchange Format

GXF (Grid eXchange File) is a standard ASCII file format for exchanging gridded data among different software systems. Software that supports the GXF standard will be able to import properly formatted GXF files and export grids in GXF format.

GXF Revision 1, drafted by Ian MacLeod at the

request of the Canadian Exploration Geophysical Society (KEGS) of Toronto, has found significant usage in the mining and environment sectors.

Revision 2.00 was undertaken in conjunction with the Australian Society of Exploration Geophysicists (ASEG) which adopted it as its standard. The main advance of Revision 2 over Revision 1 was the addition of data compression through the use of base-90 numbers and simple repeat value compression. These extensions made GXF more practical for exchanging large gridded data sets.

GXF Revision 2 was adopted by SEG's Gravity and Magnetics Committee in November 1997, with the urging that the standard be further extended to encompass the exchange of map projection information.

GXF Revision 3 implements the exchange of 2-D coordinate system information. Coordinate systems in GXF-3 are described using names from the European Petroleum Survey Group (EPSG) geodetic data tables. Although this makes the standard reliant on a work over which SEG has no control, it is anticipated that a solution can be reached.

Liaison and Cooperation

In addition to maintaining links with the UKOOA and the International Association of Geophysical Contractors (IAGC), the Technical Standards Committee has, this year, been developing closer links with the European Petroleum Survey Group (EPSG), who maintain and publish a comprehensive data set of parameters for coordinate system and coordinate transformation description.

Tellers

Richard B. Banks, Chairman

This report covers the period June 1, 2000 to June 15, 2001.

Regarding the 2000-2001 SEG Officer Election, 7336 ballots were mailed. By May 31, 2000, 2194 valid ballots had been returned. These ballots were opened under my supervision as chairman of the Tellers Committee. Additional Tellers Committee members present were Art Falkler and Frank Everett. Ballots were delivered to Southwestern Computing Services, Inc., where the results were converted to machine-sensible form, tabulated, and returned to the SEG Business Office.

SEG Tellers Committee members and volunteers verified Southwestern Computing results as follows: Ten batches of ballots ranging from 30 to 100 each were checked. No errors were found in those samples.

A second ballot was sent to SEG members in late 2000 regarding amendments to the Constitution, Article III. Membership.

Of the 7921 ballots mailed, 1862 were received through November 15, 2000. Ballots were opened under my supervision by SEG Business Office volunteer staff,

sorted, and counted according to the "Yes" or "No" response. A decision was made to hand count the ballots due to the preponderance of responses in favor of the amendments. SEG staff verified the tally of votes for 25% of the batches to confirm the accuracy of the vote.

As chairman of the SEG Tellers Committee, I approved the tabulation and reported that the amendments to the Constitution regarding a new Global Membership category were approved by a majority vote (in accord with Article XIX. "Amendments to the Constitution and Bylaws," Section 4).

THE LEADING EDGE

Editorial Board

Guillaume Cambois, Chairman

We expected 2001 to be the year of the upturn for our industry. However, although the price of oil remained at comfortable levels, the upturn did not materialize for service companies, our main advertisers. Instead, we have witnessed a number of mergers and acquisitions that bode ill for future advertising revenue (WesternGeco-EDS, IO-GMG, Landmark-MagicEarth, and Sercel-Geoscience-Mark Products, to name a few). Nonetheless, THE LEADING EDGE has managed to essentially break even this year, thanks in great part to a drastic reduction of printing costs. This is all the more remarkable that there was no preconvention issue this fiscal year—historically the highest money-making issue—when there were two last year due to the unusually early convention.

The upturn actually occurred in the number of papers submitted. Special issues and regular features have been blessed with a record number of articles. Many thanks to all guest editors and column coordinators for their excellent work. The 112-page limit, set by the board in 1998 to reduce costs, has forced us to postpone some regular nontechnical items. Faced with a growing backlog and considering the healthier financial situation, the board has decided to allow the addition of up to four 16-page signatures per year. A new monthly column was introduced this year: Business Bottom Line coordinated by board members Rocky Roden and Lawrence Gochioco. It is dedicated to new business models and strategies. The 2000 Best Paper in THE LEADING EDGE Award was bestowed upon *Time-lapse seismic surveys in the North Sea and their business impact* by Klaas Koster, Pieter W. Gabriels, Matthias Hartung, John Verbeek, Geurt Deinum, and Rob Staples. The choice was difficult considering the large number of excellent papers published this year. In terms of printing quality, one major glitch happened in December 2000. The figures were not in order and had incorrect captions, which rendered the paper unreadable. The corrected version wasrepub-

lished in March 2001, and our QC procedures were updated to prevent a recurrence of this problem.

My term and Wayne Pennington's term expire this year. Filling our vacancies are Ali Tura and John Eastwood. Ali takes over one of my duties, that of coordinator of the Acquisition/Processing column. Wayne and I truly enjoyed our time on the board and wish the new members a similar experience. Gene Sparkman, whose term would be up early next year, has agreed to stay an additional year to avoid the replacement of too many members all at once. Due to his long experience as a full-term board member, Gene will succeed me as chairman. The 2002 board will therefore be made of Gene Sparkman (chairman), John Eastwood, Lawrence Gochioco, Rocky Roden, Linda Sternbach, and Ali Tura. Special editor Larry Lines will yield his post to Chris Liner. I wish them the best.

Translations

Ilya Tsvankin, Chairman

The Translations Committee met in Calgary on August 7, 2000, to discuss several foreign-language books for possible translation and publication by SEG. Discussions continued by e-mail throughout the year. *Velocities and Seismic Imaging Techniques in Reflection Seismics* by Etienne Robein, suggested for joint publication by SEG and EAGE, has been reviewed and forwarded to the Publications Committee. Books currently being considered by the committee include *Magnetotelluric Fields in 3-D Geoelectrical Models* by Vjacheslav Spichak (the author is translating the text into English) and *The Dynamic Fluid Method* by Vladimir Pisetski (the committee is expecting an updated version). Among books recently brought to the committee's attention are *Inverse Problems in Geophysics* by Tatiana Yanovskaya and Ludmila Porokhova, *Time Series Analysis* by G. Kitagawa, *Impedance Imaging Methods* by Etsuzo Shima, and *Anisotropy and Dispersion of Elastic Waves in Layered Periodic Structures* by Boris Sibiriakov, Leonid Maksimov, and Mikhail Tatarnikov.

Magnetotellurics in the Context of Theory of Ill-Posed Problems by Mark N. Berdichevsky and Vladimir I. Dmitriev, translated from Russian and recommended by the committee to SEG several years ago, has been approved for publication by the Executive Committee.

Tables of contents of the following foreign journals are presently published in GEOPHYSICS on a regular basis.

China

Oil Geophysical Prospecting
Journal of the University of Petroleum

Hungary

Geophysical Transactions of the Eötvös Lorand
Geophysical Institute

India

Journal of Geophysics (formerly Journal of Association of Exploration Geophysicists)

Japan

Butsuri-Tansa (Geophysical Exploration) of the SEG
Japan

Russia

Geology and Geophysics, Russian Academy of
Sciences, Siberian Branch

Ukraine

Geophysical Journal, Ukrainian Academy of Sciences

Tables of contents of other journals and one-time reports of possible interest to the readership of GEOPHYSICS are published as they become available.

Report of the Ad Hoc Committee Chairman

Ad Hoc Southeast Asia/Pacific Steering Committee

Brian R. Spies, Chairman

The Ad Hoc Southeast Asia/Pacific Steering Committee was set up in early 2000 by president Sally Zinke, with a charter to investigate ways to better coordinate the activities of local SEG Sections and Associated Societies in the Southeast Asia region and to avoid potential overlap of their meetings and functions. Members of the committee are Brian Spies (chair), Alfred Liaw, Toshi Uchida, Djoko Santoso, Shane Coperude, Ananda Pramanik, and John McDonald.

SEG has a long history of international relations and representation, including seats on the Council from Districts that represent geographic regions, Sections and Associated Societies, the International Affairs (now Global Affairs) Committee, regular international meetings, and an Executive Committee drawn from multiple nationalities and cultures.

A number of national geophysical societies in the Southeast Asia/Pacific region are Associated Societies of SEG and have seats on the Council. The Associated status implies an independent relationship, but existing under the SEG umbrella (the term "SEG Section" is synonymous with Associated Society). In the southeast Asia/Pacific region, Australia, India, Japan, Korea, Malaysia, and Vietnam are Associated Societies. Many societies do not have association agreements with SEG, for instance Indonesia, New Zealand, and Taiwan. However, SEG members in the region are part of District 10, which has representation on Council.

The SEG Global Affairs Committee (GAC) was set up to foster the global nature of SEG and provide links among the Society, other SEG committees, and countries around the world. The GAC has a number of regional coordinators and country or state representatives in each of its 11 regions, which include the Asian Region and Pacific Region.

Even with these mechanisms in place, the center of gravity of the SEG is perceived as being geographically remote from southeast Asia and western Pacific, due partly to the fact that SEG's Business Office is based in the United States. Geophysical societies in the Southeast Asia/Pacific region have long sought closer ties with SEG, the largest and most well-known exploration geophysical society, as well as with each other.

A number of bilateral and multilateral agreements have been proposed. For instance, a steering committee for geophysical activities in East Asia and Australia was suggested by SEG Japan and discussed at the SEG Annual Meeting in Calgary in 2000. The purpose of this committee would be to assist coordination of activities of SEG, Korean Society of Exploration Geophysicists (KSEG), SEG Japan (SEGJ), and Australian SEG (ASEG).

These discussions continued at the January 2001 SEGJ meeting in Tokyo, with a focus on collaboration in Southeast Asia. One idea put forward was a two-day high-level meeting with local government, universities and institutes, along the lines of the successful Worldwide Seismic Safety Initiative, operated by the Seismological Engineering Society of Japan. Further high-level meetings were planned for the European Association of Geoscientists and Engineers (EAGE) meeting in Amsterdam in June 2001 and at the ASEG meeting in Brisbane in August 2001. The Ad Hoc Committee follows with great interest the ongoing discussions at Executive Committee level at various international meetings at which the various societies are represented.

Common to all these discussions are good will and a genuine desire to advance the profession of geophysics in all its guises and nationalities. The Southeast Asia/Pacific Steering Committee will continue for another year, attempting to steer its way through the plethora of societies, agreements (proposed and actual), and implications of geophysics in a rapidly evolving, global society.

Reports of the Representatives

AGI Member Society Council Walt Lynn, Representative

The American Geological Institute is a nonprofit federation of 37 geoscience and professional associations that represent more than 100 000 geologists, geophysicists, and other earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in mankind's use of resources and interaction with the environment. News, trends, and general information regarding the geosciences are disseminated through AGI's primary publication, *Geotimes*, and through its Web site, www.agiweb.org.

I attended both of the semiannual AGI Member Society Council meetings this past year. From SEG's viewpoint, the primary benefit of AGI lies in the educational initiatives either supported directly by AGI or indirectly through one or more of the member societies. These initiatives include Earth Science Week, an Advanced Placement curriculum for U. S. high schools, two new earth science textbook series, (one for middle school and one for high school), and a Web-based set of modules for continuing education. Earth Science Week is an international grass-roots event that occurs during or around the second week of October. Last year, all 50 states in the United States and 30 other countries participated.

Additionally, I participated in a workshop in April on *Demographics in the Geosciences* sponsored by the National Science Foundation and AGI. The purpose of the workshop was to identify metrics to accurately ascertain the supply and demand status of the geoscience workforce in industry, academia, and government agencies. A brief summary was published in the June 2001 issue of *Geotimes*.

SEG will continue to coordinate and communicate with AGI and its member societies to enhance our own educational programs through intersociety cooperation. I highly recommend the AGI Web site for further information. Please pass along any relevant information to your colleagues.

API Central Committee for Telecommunications Clifford Ray, Representative

The API Telecommunication Committee's mission is to support the oil and gas industry's effective management and implementation of telecommunication technologies, resources, regulatory, and legislative effects. Our participation on this committee as a nonvoting member provides the SEG with an opportunity to:

- A. Become aware of many actions and proposed actions of legislative and governmental agencies (primarily the FCC), which have regulatory, or oversight authority in technical areas, particularly communications, that could impact our operations.
- B. Provide a means for us to present our industry's perspective and concerns with regard to any proposed rules that would adversely affect our members.

I was privileged to attend both the fall and spring meetings of the API Telecommunications Committee held in Washington, D.C. in October 2000 and New Orleans in April 2001. We met with representatives of the Federal Communications Commission (FCC) and reviewed the status of a number of items that could have an effect on radio frequencies commonly used by SEG members.

Items that may be of interest to members:

1. The FCC conversion to the Universal Licensing System with a new set of forms and fees is almost complete. Filing may now be done via the Internet.
2. On May 10, 2000, the FCC released a Notice of Proposed Rule Making to amend Part 15 of its rules to accommodate the introduction of ultra-wide-band (UWB) technology. UWB devices can be used for a variety of applications, including the precise measurement of distances or locations, obtaining the images of objects buried underground or behind surfaces, and for wireless communications such as short-range high-speed data transmissions suitable for broadband access to the Internet. UWB has been used for some time in ground penetrating radar (GPR), and future uses may include intrusion detection systems that are susceptible to false alarms and liquid level sensors for oil refinery tanks. The commission has determined that some UWB applications, such as GPR, should be allowed

to operate in any part of the spectrum (with certain limitations), due to the fact that their energy is directed into the ground, and will pose little threat of interference. Several entities, including the Executive Committee of SEG, have submitted comments favorable to our position to the FCC. However, unfavorable comments have also been submitted that would impose restrictions affecting our operations. A resolution will be made after the commission has reviewed all the comments.

3. Due to the 1998 Biennial Regulatory Review of the Private Land Mobile Radio Services (PLMRS) rules, Part 90, the FCC has made changes to simplify, streamline, or update several rules:
 - The commission extended the term for all new or renewed Part 90 licenses to 10 years.
 - The commission extended the in-operation requirement to 12 months for all Part 90 licenses, except for those stations authorized extended implementation.
 - The commission agreed that trunking systems in the bands between 150 and 512 MHz that are not subject to monitoring should have the class of station reflected on its license followed by an FB8 code.
 - The commission agreed that the definition of "mobile units" should include hand-held transceivers, as well as vehicular units.
 - The commission agreed to eliminate the licensing requirement for five low power VHF channels, the so-called color dot frequencies, and not reallocate other VHF or UHF frequencies to the unlicensed category.
 - The FCC has plans to auction off additional frequencies in the 216-220 MHz band. If this occurs, it will no doubt further limit the use of this band for seismic applications. Comments have been made to the FCC promoting our cause. We expect a decision to be made before the end of the year concerning the auctioning of additional frequencies in this band.

Our membership on the API Telecommunication Committee is an open window to monitor and present our views concerning regulatory and legislative matters that may affect the use of radio spectrum by our members. I encourage members to bring to my attention their particular spectrum concerns so that I will be alert to spectral issues affecting our membership.

International Association of Geophysical Contractors (IAGC)

Gene Womack, Representative

The International Association of Geophysical Contractors (IAGC) celebrates 30 years of service to the global

geophysical exploration industry in 2001. One of its primary goals in the new millennium is to strengthen its working relationship with SEG and other professional societies and trade associations. IAGC, for more than three decades, has cooperated and coordinated its efforts with SEG on industry concerns.

As a first step in the process, a first-ever scheduled meeting between IAGC's Board of Directors and SEG's Executive Committee was held in Calgary during the 2000 SEG Annual Meeting. During the meeting it was announced that the establishment of the External Activities Committee for SEG offers further opportunity for IAGC-SEG cooperation.

It was recognized that, while these annual discussions between IAGC and SEG leaders should be continued, more frequent liaison was desirable from both sides. To this end, Walt Lynn, SEG president-elect and Gene Womack, representative, were invited to attend an IAGC Board of Directors meeting in Houston in March 2001. Specific steps were identified from the Calgary meeting and further clarified at this meeting. These will be developed into an action plan for future cooperation. Clearly the top priority for both organizations involves the rationalization of future industry conferences and meetings. Improving communications and networking are also priority items.

To build on the progress achieved in Calgary and Houston, IAGC and SEG leaders will meet again at the SEG Annual Meeting in San Antonio. This will be an annual event for future SEG annual meetings, with at least one meeting between the respective leaders held between annual meetings. Both groups are committed to taking appropriate steps that provide significant benefit to the commercial success and advancement of technology within the global geophysical community. This spirit of cooperation already is paying dividends, including:

- Expanding discussions in the selection of industry meeting venues.
- Placing the IAGC exhibit booth at future SEG annual meetings next to the SEG Book Mart to maximize exposure to attendees.
- Providing regular space in *THE LEADING EDGE* for IAGC's leadership to discuss industry issues and opportunities.
- Establishing a link between the two organizations' Web sites for accessing information that enables the global geophysical industry to work in a safe, efficient, and environmentally friendly manner.

IAGC is proud of its long-standing relationship with SEG on matters of common concern and pledges its best efforts to expand and enhance cooperative efforts that help bring about the healthiest and most technologically proficient marketplace for geophysical products and services. IAGC's new email address is iagc@airmail.net.

Offshore Technology Conference (OTC) Board of Directors

James D. Robertson, Representative

SEG is a sponsoring organization of the Offshore Technology Conference, a relationship that dates back to 1968 when SEG accepted an invitation to join with AIME and seven other engineering and scientific societies to establish OTC as an interdisciplinary meeting on technology related to offshore resources. As a sponsoring organization, SEG is entitled to appoint one of the 13 members of the OTC Board of Directors. I have just finished the third year of a four-year term as SEG's representative to the Board.

The 2001 Offshore Technology Conference was held on April 30-May 3, 2001 at Reliant Park (formerly known as the Astrodomain) in Houston. The conference utilized Reliant Hall and Reliant Arena. This year's OTC is the last that will be held in those facilities as the conference plans to move to the newly constructed Reliant Convention Center in 2002. Total attendance was 47 649, an increase of more than 8% over the 2000 registration. A total of 266 technical papers were presented, and 2185 exhibitors from 28 countries occupied 400 000 square feet of exhibit space. Two OTC general sessions covered the topics of *Commercialization of the Ultradeep: What will it take?* and *eBusiness Impact on the Petroleum Industry: Evolution or Revolution?* The Active Arena focused on technology, opportunities, and developments in the Deepwater Gulf of Mexico.

The 2001 OTC Distinguished Achievement Award for Individuals was presented to Howard Shatto Jr. for his numerous contributions to offshore drilling and production, including the invention of the world's first automatic control for dynamic positioning of a drillship. The 2001 OTC Distinguished Achievement Award for Companies, Organizations, and Institutions was presented to Petrobras for its development of the Roncador Field, which was brought on line in only 27 months from discovery to first oil production through the use of a dynamically positioned early production system. Rilwanu Lukman, Nigerian presidential advisor on petroleum and energy and former OPEC secretary general, delivered the keynote address at the awards luncheon.

A global energy summit of energy industry leaders was held in conjunction with the 2001 OTC and focused on the theme, *Sustainability of the Oil and Gas Industry in the New Century*. Robert Mabro, fellow of St. Antony's College, Oxford, and director of the Oxford Institute for Energy Studies, moderated the summit. For the first time, three industry breakfasts were held. Delegates were able to hear discussions on the topics of *A Financing Alternative for Offshore Projects*, *Monetizing Gas Resources with Electric Power: Current Issues and Trends*, and *Business Opportunities*

in Kazakhstan Oil and Gas Projects.

Exploration geophysics was strongly represented in the 2001 OTC technical program by SEG-sponsored technical sessions on immersive visualization, geopressure prediction, and interpretive techniques, and by a topical luncheon speech delivered by Jack Caldwell on *Whale-friendly seismic: A scientific and environmentally responsible approach to seismic data acquisition*. I thank Linda J. Zimmerman, chairman, Dan Ebrom, vice chairman, and the other members of the SEG Subcommittee of the OTC Technical Program Committee for their diligent efforts in assembling these excellent sessions. The hard work of these SEG members is directly responsible for the outstanding representation of exploration geophysics in the OTC technical program and for SEG's success in promoting geophysics to all OTC attendees.

OTC Technical Program

Dan Ebrom, Representative

The 2001 Offshore Technology Conference (OTC) was held April 30-May 3 in Houston. As in years past, the conference was held in the Astro Arena (now Reliant Arena) at Astrodomain, now Reliant Park. A new convention building is being constructed at Reliant Park, which should be completed in time to serve as the site of the 2002 OTC.

SEG sponsored, or cosponsored, five sessions on geophysical technology at the 2001 OTC. April 30 at the OTC kicked off with a session on *Immersive Environments in the Petroleum Industry*, in which new visualization approaches were demonstrated and proposed. Session organizers Roice Nelson and Roger Anderson did a great job in pulling in not only service companies (Veritas and Dynamic Resources), oil companies (ExxonMobil and Phillips), and universities (Columbia and Colorado) to present, but also an airline company (Boeing!).

April 30 was also the day that Jack Caldwell (of CoreLabs) gave his lunch presentation *Whale-friendly seismic*. This topic is of particular importance now because federal regulatory agencies are investigating the need for restricting the activities of seismic operations in the vicinity of marine mammals (whales, dolphins, porpoises, seals, etc.). Industry journalists from *Offshore Magazine*, the *Oil and Gas Journal*, and Hart's *E&P Magazine* were present to report on Caldwell's presentation. The topic is also of interest to the public at large, as attested by the presence of reporters from Reuter's wire service and the *Houston Chronicle*. Caldwell gave a well-balanced talk that presented industry concerns while also being sensitive to the legitimate need of the federal government to preserve marine mammal populations.

May 1 saw an all-day session, cosponsored with AAPG, on prediction of pore pressure in the subsurface using seismic methods. The morning session, *Theory and Practice of Geopressure Prediction Using Geophysical Methods*, was chaired by Alan Huffman and Dan Ebrom. In addition to more standard techniques of P-wave velocity-based pore-pressure prediction, two speakers (Colin Sayers and Huffman) discussed new possibilities of using shear-wave (and mode-converted shear-wave) data to constrain pore-pressure estimates. In the afternoon, the session continued as *Application of Geopressure Prediction Using Geophysical Methods*, chaired by Glenn Bowers and Bob Bruce. The all-day session drew an audience that averaged in excess of 100 attendees, underlining the significance of this topic. Kudos for session development go to Glenn Bowers, Alan Huffman, and Bob Bruce, who enticed speakers from as far away as Britain and Australia!

May 1 also saw an Active Arena session on *Gulf of Mexico Subsea Production System Development and Standardization*, cosponsored with ASME. This engineering-crossover themed set of papers had a great audience, averaging in excess of 150 attendees. Session chairs, Doug Peart and Brad Beitler oversaw a lively group of presentations revolving around the goals of reducing completion costs, improving uptime, assuring flow, and managing the full life cycle of the reservoir.

The May 2 session *Interpretive Techniques for Reservoir Characterization*, cosponsored with AAPG, showcased new applications of seismic data interpretation techniques and technologies. Neural networks, seismic attributes, and inversion were all shown in improved form as applied to marine seismic data. A new marine seismic acquisition system that allows adaptive forming of sensor arrays was introduced, and opportunities for application to time-lapse seismics were discussed. These papers were tied together by the notion that seismic data possess a unique ability to serve as the integrating tool for assessing reservoir lithologies and fluids.

The OTC Committee chairman for 2001 was Linda Zimmerman of ExxonMobil. She was assisted by vice chairman Dan Ebrom, and committee members Mike Burnaman, Glenn Bowers, Warren Franz, Tom Fulton, Alan Huffman, John MacDonald, Marilyn Mawdsley, H. Roice Nelson, Ed Stoessel, and Art Weglein. The 2002 OTC committee will be chaired by Dan Ebrom, with Guy Purnell as vice chairman. The OTC continues to strengthen as a venue for presentation of world-class seismic technology case histories and seismic technology overviews. This year's OTC SEG committee members deserve due recognition for having produced another outstanding geophysical technology program.

Reports from the Virtual Intersociety Cooperation Committees (VICC)

Joint Distinguished Lecturer Lynn Comeaux, Representative

Based on the success of the joint SEG/AAPG Distinguished Lecture program, SEG, AAPG, and SPE have begun a study into further expansion of intersociety cooperation in managing a combined Distinguished Lecture tour program. A joint committee, Virtual Intersociety Cooperation Committee (VICC), has been formed and is currently considering recommendations.

A working group of AAPG, SEG, and SPE members convened to consider the issues involved in a program shared by the three societies. Members of the joint working group were Kate Baker (SPE), who chaired the committee, Paul Weimer (AAPG), and Lynn Comeaux (SEG). The group met by conference call several times during the spring of 2001.

At the end of May 2001, a report was submitted to the VICC describing four different joint lecturer programs. The concepts differed in levels of complexity and organizational demands, ranging from single rotating presenters to multiday field courses. The scope, advantages, and disadvantages of each approach were also stated to provide a range of values to be weighed in a decision to commission a particular program.

Joint Membership Howell Pardue, Representative

The dialog this year began with a teleconference call with Jim Willmon with the Society of Petroleum Engineers (SPE), Rick Fritz with the American Association of Petroleum Geologists (AAPG), and me. What on the surface appeared to be an easy task became bogged down in bureaucratic problems. SEG and SPE had very few problems coming to a solution, but AAPG, because of its requirements of a four-year degree for both Active and Associate Membership and a reluctance to attempt a change in its Bylaws, could not commit to a Joint Membership classification. Also, because of its year-end accounting, AAPG was reluctant to attack the accounting problem. At the end of the teleconference, Rick Fritz stated that, because of his busy schedule, Bob Countryman, AAPG Membership chairman, would be a better contact.

After the AAPG annual meeting in June 2001 in Denver, I spoke with Bob Countryman and came away from our conversation believing that the issue is not dead with AAPG. He is willing to attempt to solve the problems that keep the joint membership classification from becoming a reality. Willmon suggests, and I agree, that even if the AAPG cannot come on board at the current time, SEG and SPE can go ahead with a joint membership classification of Active to Associate.

SEG FOUNDATION

BALANCE SHEETS

December 31,

2000

ASSETS

Cash and Investments:		
Cash and cash equivalents	\$ 1,090,336	
Fixed income investment securities	2,468,672	
Equity investment securities	4,980,076	
Total Cash and Investments		8,539,084
Pledges Receivable, (no allowance for doubtful pledges)		65,079
Doodlebugger Inventory		17,575
Prepaid Expenses		1,600
Exhibits		32,223
	\$ 8,655,561	

LIABILITIES AND NET ASSETS

Liabilities:		
Accounts payable	\$ 809	
Total Liabilities		809
Net Assets:		
Permanently restricted	5,005,856	
Temporarily restricted	1,444,584	
Unrestricted	2,204,312	
Total Net Assets		8,654,752
	\$ 8,655,561	

Sartain Fischbein + Co.



Accountants - Certified Public Accountants

Independent Auditors' Report

To the Board of Directors
SEG Foundation

We have audited the accompanying balance sheets of the SEG Foundation (the "Foundation") as of December 31, 2000 and 1999 and the related statements of revenue and expenses and changes in net assets and cash flows for the years then ended. These financial statements are the responsibility of the Foundation's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the SEG Foundation as of December 31, 2000 and 1999 and the changes in its net assets and its cash flows for the years then ended in conformity with generally accepted accounting principles.

Sartain Fischbein + Co.

February 14, 2001

The accompanying notes are an integral part of the financial statements.

**SEG FOUNDATION
STATEMENTS OF REVENUE AND EXPENSES
AND CHANGES IN NET ASSETS**

Years Ended December 31,

2000

Changes in Unrestricted Net Assets:	
Revenue and Gains:	
Contributions	\$ 99,540
Sale of doodlebuggers	7,500
Interest and dividends	80,788
Net assets transferred and released from restrictions	183,228
Total Revenue and Gains	371,056
Program Expenses:	
Projects	291,663
Scholarships	175,650
Cost of doodlebuggers sold	7,990
Other	384
Total Program Expenses	475,687
Supporting Expenses:	
Administrative fees	178,695
Facility rent	114,000
Annual meeting	4,309
Fund raising	3,848
Professional fees	5,683
Other	3,424
Total Supporting Expenses	309,959
Net Gain on Investments	74,901
Decrease in Unrestricted Net Assets	(339,689)
Changes in Temporarily Restricted Net Assets:	
Contributions	450,198
Interest and dividends	197,025
Net gain on investments	180,631
Net assets transferred and released from restrictions	(309,648)
Increase in Temporarily Restricted Net Assets	518,206
Changes in Permanently Restricted Net Assets:	
Contributions	457,565
Net assets transferred and released from restrictions	126,420
Increase in Permanently Restricted Net Assets	583,985
Increase in Net Assets	762,502
Net Assets, beginning of year	7,892,250
Net Assets, end of year	\$ 8,654,752

SEG FOUNDATION

STATEMENTS OF CASH FLOWS

Years Ended December 31,

2000

Cash Flows From Operating Activities:	
Cash received from contributors	\$ 730,479
Interest and dividends received	277,813
Cash received for sale of doodlebuggers	7,500
Cash paid for doodlebuggers	-
Cash paid for program expenses	(468,453)
Cash paid for supporting expenses	(52,749)
Net Cash Provided By Operating Activities	494,590
Cash Flows From Investing Activities:	
Sales and maturities of investments	177,361
Purchases of investments	(436,842)
Net Cash Used in Investing Activities	(259,481)
Net Increase (Decrease) in Cash and Cash Equivalents	235,109
Cash and Cash Equivalents, beginning of year	855,227
Cash and Cash Equivalents, end of year	\$ 1,090,336
Reconciliation of Change in Net Assets to Net Cash Provided by Operating Activities:	
Increase in net assets	\$ 762,502
Adjustments to reconcile increase in net assets to net cash provided by operating activities:	
Unrealized gains on investments	(256,287)
Change in assets and liabilities:	
Pledges receivable	(18,824)
Prepaid expenses	(1,600)
Doodlebugger inventory	7,990
Accounts payable	809
Other liabilities	-
Net Cash Provided by Operating Activities	\$ 494,590

The accompanying notes are an integral part of the financial statements.

**SEG FOUNDATION
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 2000 AND 1999**

**SEG FOUNDATION
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 2000 AND 1999**

**1. ORGANIZATION
AND SUMMARY
OF SIGNIFICANT
ACCOUNTING
POLICIES**

Nature of Activities: The SEG Foundation (the "Foundation"), is a not-for-profit corporation administered by the Society of Exploration Geophysicists (the "Society"). The Foundation encourages and supports scientific, educational, and charitable activities of benefit to geophysicists. The Foundation awards scholarships to students involved in the study of geophysics and promotes research, primarily within the field of geophysics. The Foundation maintains a museum devoted to documents, equipment, films and publications in the field of geophysics. Contributions are received primarily from members of the Society.

Net Assets: To ensure observance of limitations and restrictions placed on the use of resources available to the Foundation, the net assets of the Foundation are segregated according to any restrictions placed on the resources. In the accompanying financial statements, net asset restrictions which have similar characteristics have been combined, though the accounting records maintain more detailed accounts. The net assets of the Foundation are segregated as follows:

- **Permanently Restricted:** This category reflects contributions provided by donors who have explicitly expressed that they wish only the income earned on their donations expended for Foundation activities while the corpus is to remain intact.
- **Temporarily Restricted:** This category reflects contributions provided by donors for specified Foundation activities and the earnings of investments thereon. Also included are pledges due in future periods.
- **Unrestricted/Board Designated:** This category reflects net assets which are generally available for authorized expenditures in furtherance of the goals and objectives of the Foundation and represent unrestricted contributions and cumulative earnings of funds other than those whose use has been specified by the donor. All unrestricted net assets have been designated by the Board of Directors as non-expendable funds. However, when practicable, program and supporting expenditures are limited to 50% of the current year earnings from board designated non-expendable funds.

Program Activities: The Foundation's programs consist of the following:

- **Scholarships:** The Foundation provides scholarships to university students in courses of study preparing for a career in the field of geophysics and related sciences. During 1997, the Foundation established a Permanently Endowed Scholarship Fund. Contributions received from donors for this Fund are matched 100% by the Society up to a maximum of \$100,000 per donor and \$500,000 in total. The Foundation received from donors approximately \$230,000 during 2000 specifically designated for this fund and eligible for the Society match. The earnings from investments in this fund will be used to provide scholarships to university students.
 - **Continuing Education:** Continuing education program sponsors seminars, lectures and other educational courses to further the scientific understanding of geophysics.
 - **Publications:** This program supports publications in the field of geophysics.
 - **Museum:** The Foundation has established a museum which consists of historical documents and artifacts which chronicle the science of geophysics.
 - **SEG Member Dues:** The member dues program supports the Society by providing assistance to international, unemployed and emerging nation students.
 - **Projects:** The Foundation provides support to a variety of projects related to the field of geophysics.
- During 1999, the Foundation established a Double Impact Program to match contributions to the Foundation. A maximum of \$1,000,000 in unrestricted general funds is available to match contributions received for the Foundation's Behind Education Programs and the Museum, for minimum donations of \$1,000 to maximum donations of \$100,000. The Foundation received from donors approximately \$126,000 during 2000 and \$441,000 during 1999 which were matched as part of this program.

**SEG FOUNDATION
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 2000 AND 1999**

**1. ORGANIZATION
AND SUMMARY
OF SIGNIFICANT
ACCOUNTING
POLICIES
(CONTINUED)**

Cash and Cash Equivalents: Cash and cash equivalents include cash on hand and all highly liquid investments with a maturity when acquired of three months or less. Cash equivalents consist of money market funds held by a brokerage firm.

Investments: Investments consist of fixed income securities and equity investments and are carried at fair value at December 31, 2000 and 1999. Fair values for investment securities are based on quoted market prices, where available. If quoted market prices are not available, fair value is based on quoted market prices of comparable instruments.

Property and Equipment: Property and equipment are recorded at cost. Property and equipment other than museum exhibits are depreciated over the estimated useful lives of the assets using the straight-line method. Museum exhibits are not depreciated.

Income Taxes: The Foundation is exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Code. Contributions to the Foundation qualify as charitable deductions.

Use of Estimates: The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

**SEG FOUNDATION
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 2000 AND 1999**

2. INVESTMENTS

Investments, at fair value, consist of the following at December 31:

	<u>2000</u>	<u>1999</u>
Fixed income securities:		
Certificates of deposit	\$ 472,103	\$ 471,960
U.S. Treasury notes	1,305,781	1,210,187
GNMA certificate	70,347	86,362
Corporate bonds	620,441	602,241
	<u>2,468,672</u>	<u>2,370,750</u>
Equity investments:		
Common stocks	4,980,076	4,562,230
	<u>\$7,448,748</u>	<u>\$6,932,980</u>

The fair value of fixed income securities at December 31, 2000 by maturity, are shown below:

Due after one year through five years	\$ 550,109
Due after five years through ten years	1,848,216
GNMA certificate	<u>70,347</u>
	<u>\$2,468,672</u>

**3. RELATED PARTY
TRANSACTIONS**

The Society provides substantially all of the administrative and financial services and also provides office space to the Foundation free of charge. The estimated amount of the in-kind contribution from the Society for these services is \$258,000 and has been included as contribution revenue and administrative and rent expense for 2000 and 1999.

During 2000 and 1999, the Foundation received approximately \$357,000 and \$474,000, respectively, of contributions from the Society.

**SEG FOUNDATION
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED DECEMBER 31, 2000 AND 1999**

**4. TEMPORARILY
RESTRICTED NET
ASSETS**

Temporarily restricted net assets are available for the following programs:

	<u>2000</u>	<u>1999</u>
Scholarships	\$ 522,437	\$348,741
Continuing education	266,024	248,574
Publications	98,024	91,784
Museum	104,930	76,313
SEG member dues	186,571	137,142
Distinguished programs	206,114	27,369
General	60,484	(3,545)
	<u>\$1,444,584</u>	<u>\$926,378</u>

**5. PERMANENTLY
RESTRICTED NET
ASSETS**

Net assets were permanently restricted for the following purposes:

	<u>2000</u>	<u>1999</u>
Scholarships	\$2,526,881	\$2,203,396
General	1,171,121	1,171,121
SEG member dues	596,737	594,237
Distinguished programs	711,117	453,117
	<u>\$5,005,856</u>	<u>\$4,421,871</u>



SOCIETY OF EXPLORATION GEOPHYSICISTS

BALANCE SHEETS

June 30,

2001

ASSETS

Current Assets:	\$	616,824
Cash		101,234
Short-term investments		696,115
Accounts receivable, less allowance for doubtful accounts of \$15,000 and \$10,000 in 2001 and 2000		810,248
Inventories		339,278
Prepaid expenses		31,469
Accrued interest receivable		
Total Current Assets		2,595,168
Investments		3,271,098

Property, Furniture and Equipment:

Land	489,605
Building	7,826,751
Furniture, fixtures and equipment	642,612
	8,958,968
Less accumulated depreciation	3,078,480

Net Property, Furniture and Equipment

	5,880,488
	<u>\$ 11,746,754</u>

LIABILITIES AND NET ASSETS

Current Liabilities:	\$	322,431
Accounts payable and accrued liabilities		2,942,755
Deferred revenue		
Total Current Liabilities		3,265,186
Unrestricted Net Assets		8,481,568
		<u>\$ 11,746,754</u>

To the Executive Committee and Members
Society of Exploration Geophysicists
Tulsa, Oklahoma

We have audited the accompanying balance sheets of the Society of Exploration Geophysicists (the "Society") as of June 30, 2001 and 2000, and the related statements of revenue, expenses and changes in net assets and cash flows for the years then ended. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Society of Exploration Geophysicists as of June 30, 2001 and 2000, and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Sartain Fischbein & Co.

July 20, 2001

SOCIETY OF EXPLORATION GEOPHYSICISTS

STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS

2001

Years Ended June 30,

Revenue:	
Membership dues	\$ 986,988
Conferences and meetings	3,368,386
Publication sales and advertising	2,280,905
Continuing education	509,804
Investment income	112,539
Building lease operations	952,226
Other	165,094
Total Revenue	8,375,942
Expenses:	
Membership record services	295,968
Conferences and meetings	1,967,947
Publications	2,739,185
Continuing education	650,228
Total Program Expenses	5,653,328
General and administrative	1,353,057
Building lease operations	872,867
Total Expenses	7,879,252
Excess of Revenue Over Expenses Before Contributions to Foundation	496,690
Contributions to Foundation	(375,345)
Excess of Revenue Over Expenses	121,345
Unrestricted Net Assets, beginning of year	8,360,223
Unrestricted Net Assets, end of year	\$ 8,481,568

STATEMENTS OF CASH FLOWS

Years Ended June 30,

2001

Cash Flows from Operating Activities:	
Cash received from members and other	\$ 8,200,043
Cash paid to suppliers and employees	(8,044,937)
Net Cash Provided by Operating Activities	155,106
Cash Flows from Investing Activities:	
Purchases of property, furniture and equipment	(217,314)
Purchases and maturities of investments, net	32,816
Net Cash Used in Investing Activities	(184,498)
Net Increase (Decrease) in Cash	(29,392)
Cash, beginning of year	646,216
Cash, end of year	\$ 616,824
Reconciliation of Excess of Revenue Over Expenses to Net Cash Provided by Operating Activities	
Excess of revenue over expenses	\$ 121,345
Adjustments to reconcile excess of revenue over expenses to net cash provided by operating activities:	
Depreciation	514,569
Unrealized (gain) loss on investments	25,881
(Gain) loss on disposal of property, furniture and equipment	8,000
(Increase) decrease in assets:	
Accounts receivable	(111,557)
Inventories	(180,223)
Prepaid expenses	9,693
Accrued interest receivable	306
Increase (decrease) in liabilities:	
Accounts payable and accrued liabilities	(141,825)
Deferred revenue	(91,083)
Net Cash Provided by Operating Activities	\$ 155,106

The accompanying notes are an integral part of the financial statements.

**SOCIETY OF EXPLORATION GEOPHYSICISTS
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED JUNE 30, 2001 AND 2000**

**1. ORGANIZATION
AND SUMMARY
OF SIGNIFICANT
ACCOUNTING
POLICIES**

Nature of Operations: The Society of Exploration Geophysicists (the "Society") was organized in 1930 as a not-for-profit organization. The objectives of the Society are to promote the science of geophysics, especially as it relates to exploration and research, to foster the common scientific interests of geophysicists and to maintain a high professional standing among its members. The Society accomplishes these objectives by publishing scientific literature, conducting continuing education programs and technical meetings and providing other informational services.

The accompanying financial statements include the financial position, results of activities and cash flows of the Society. These financial statements do not include the SEG Foundation (the "Foundation"), a separate not-for-profit organization which receives contributions for public education and other scientific purposes.

Cash Balances: The Society maintains cash balances at several banks. Accounts at each institution are insured by the Federal Deposit Insurance Corporation up to \$100,000. At June 30, 2001 and 2000, the Society had deposits in excess of the federally insured limit.

Inventories: Inventories of publications for resale are valued at the lower of cost, determined by the moving-average method, or market.

Investments: Investments consist of marketable debt and equity securities which are valued at their fair values in the balance sheet. Fair values for investments are based on quoted market prices. Unrealized gains and losses are included in the statement of revenue and expenses.

Property, Furniture and Equipment: Property, furniture and equipment is carried at cost. Depreciation is computed using the straight-line method based on the estimated useful lives of the assets. When assets are retired or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts, and any resulting gain or loss is included in revenue or expenses. Expenditures for maintenance and repairs are charged to expense as incurred. Major improvements are capitalized.

**SOCIETY OF EXPLORATION GEOPHYSICISTS
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED JUNE 30, 2001 AND 2000**

Property, Furniture and Equipment (Continued):

The lives used in computing depreciation are as follows:

Building	50 years
Furniture and equipment	3 to 10 years

Income Taxes: The Society is a not-for-profit organization under Section 501(c)(6) of the Internal Revenue Code and is subject to income taxes on unrelated business income. Based upon the allocation of costs as prescribed in the IRS regulations, no provision for income taxes was necessary for 2001 and 2000.

Transactions with Foundation: The Society leases building space and provides administrative services to the Foundation. The Society did not charge the Foundation for rent and administrative services in 2001 or 2000. The estimated amount of the in-kind contribution to the Foundation for these services is \$254,000 and has been included as other income (\$140,000), building revenue (\$114,000) and contributions to foundation (\$254,000) for 2001 and 2000. Additionally, the Society donated \$121,345 in 2001 and \$356,775 in 2000 to the Foundation. Included in accounts payable at June 30, 2001 and 2000 was \$122,219 and \$152,085, respectively, which was due to the Foundation.

Revenue Recognition: Membership dues and publication subscription revenues are recognized ratably over the applicable membership or subscription period. Revenues relating to meetings are recognized as revenue at the time of the meeting.

Building Lease Operations: The Society owns the land and building where its administrative offices are located in Tulsa, Oklahoma. Office space which is not used by the Society is leased to other companies.

Use of Estimates: The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

**SOCIETY OF EXPLORATION GEOPHYSICISTS
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED JUNE 30, 2001 AND 2000**

2. INVESTMENTS

At June 30, 2001 and 2000, investments were as follows:

	<u>2001</u>	
	<u>Cost</u>	<u>Market</u>
Cash management fund	\$ 101,234	\$ 101,234
Equity investments	1,326,638	1,643,070
Corporate bonds	<u>1,582,400</u>	<u>1,628,028</u>
	\$3,010,272	3,372,332
Less short-term investments		<u>101,234</u>
Long-term investments		\$3,271,098

	<u>2000</u>	
	<u>Cost</u>	<u>Market</u>
Cash management fund	\$ 134,206	\$ 134,206
Equity investments	1,326,638	1,756,333
Corporate bonds	<u>1,583,434</u>	<u>1,540,490</u>
	\$3,044,298	3,431,029
Less short-term investments		<u>134,206</u>
Long-term investments		\$3,296,823

The fair value of fixed income securities at June 30, 2001 by maturity, are shown below.

Due after one year through five years	\$1,431,688
Due after five years through ten years	<u>196,340</u>
	\$1,628,028

Investment income in the accompanying statements of revenue, expenses and changes in net assets consists of the following:

	<u>2001</u>	<u>2000</u>
Interest income	\$138,420	\$110,967
Unrealized gain (loss) on investments	<u>(25,881)</u>	<u>72,472</u>
	\$112,539	\$183,439

**SOCIETY OF EXPLORATION GEOPHYSICISTS
NOTES TO FINANCIAL STATEMENTS
YEARS ENDED JUNE 30, 2001 AND 2000**

3. PENSION AND SALARY REDUCTION PLANS

The Society sponsors a defined contribution pension plan which does not allow employee contributions. The Society makes contributions to the Plan based upon 4.5% of the employees' eligible wages.

The Society also sponsors a salary reduction plan. The Society's contributions to this plan are computed based on 2% of salaries and a two-for-one matching contribution of employees' contributions, up to a maximum of 4.33% of salaries.

The Society's expense under these plans was \$274,192 and \$256,537 in 2001 and 2000, respectively.

4. FUTURE RENTAL REVENUE UNDER OPERATING LEASES

The Society leases approximately 75% of the office space in its headquarters building to unaffiliated parties under noncancelable operating leases. The following is a schedule of minimum future rental revenues from those tenants as of June 30, 2001:

Year Ending June 30,	<u>Amount</u>
2002	\$ 777,469
2003	430,478
2004	161,213
2005	38,738
2006	<u>4,426</u>
	\$1,412,324

SOCIETY OF EXPLORATION GEOPHYSICISTS
STATEMENTS OF BUDGETED REVENUES AND EXPENSES
 (Subject to Final Approval)

	(Interim)		(Final)	
Years Ending June 30,	2002		2001	
Revenues:				
Membership Dues	\$	1,010,000	\$	968,000
Conferences and Meetings		3,914,000		3,338,000
Publication Sales and Advertising		2,440,000		2,396,000
Geoscience Education		510,000		599,000
Investment Income		595,000		635,000
Building Lease Operations		1,006,000		946,000
Other		162,000		179,000
Total Revenues		<u>9,637,000</u>		<u>9,061,000</u>
Program Expenses:				
Membership Record Services		308,000		315,000
Conferences and Meetings		2,818,000		2,738,000
Publications		2,682,000		2,344,000
Geoscience Education		919,000		847,000
Subtotal Program Expenses		<u>6,727,000</u>		<u>6,244,000</u>
General & Other Expenses:				
General and Administrative		1,535,000		1,361,000
Building Lease Operations		1,006,000		986,000
Total Expenses		<u>9,268,000</u>		<u>8,591,000</u>
Excess of Revenues Over Expenses Before Contributions to Foundation		369,000		470,000
Contributions to Foundation		<u>264,000</u>		<u>334,000</u>
Excess of Revenues Over Expenses		<u>\$ 105,000</u>		<u>\$ 136,000</u>



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