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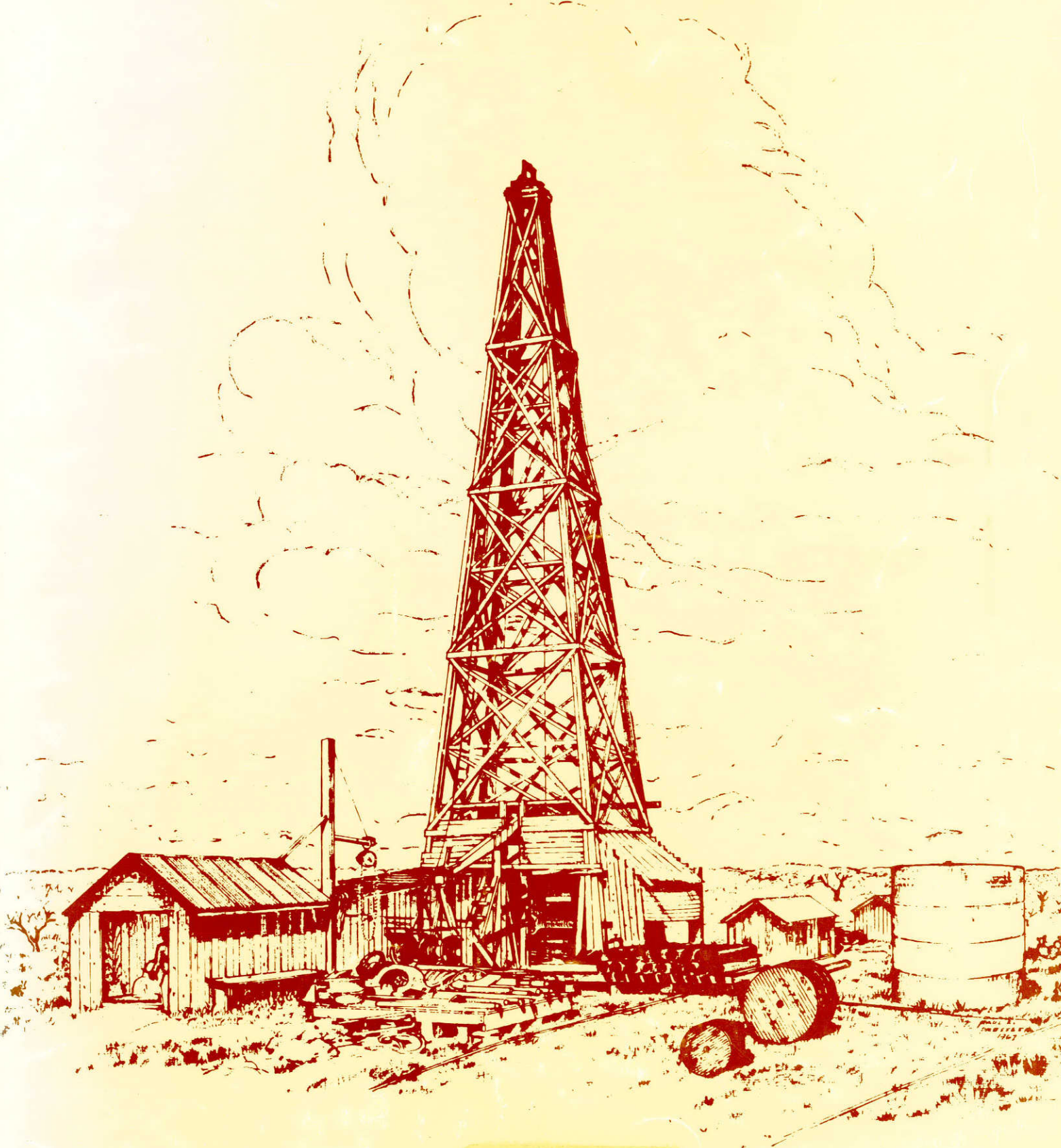
NON-CIRCULATING

DEPARTMENT OF GEOLOGICAL SCIENCES

NEWSLETTER

THE UNIVERSITY OF TEXAS AT AUSTIN

NO. 34 : NOVEMBER 1984 : AUSTIN, TEXAS



APR 1 1985

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CONTENTS

Alumni Events	1
Faculty Appointments to Endowed Positions	3
John Maxwell Retires	4
New Endowments in Geology Foundation	5
Report from Advisory Council Chairman	7
New Council Member	7
Geology Foundation News	8
Council Members Stand for AAPG Offices	8
Advisory Council Membership	9
Donors to the Foundation	10
Foundation Endowment Accounts	11
Scholarships Awarded	14
Enrollment and Degrees	17
Student Awards	23
The Department—Looking to the Future	24
Bureau of Economic Geology	25
Institute for Geophysics	25
Crises in Instrumentation	27
Four Years with the College	28
Visiting Lecturers Enrich the Program	29
Faculty and Staff	31
Faculty Activities	33
Faculty Publications	43
In Memoriam	46
Alumni News	48

WE NEED YOUR HELP

The faculty and students appreciate your continued interest in the Department and Geology Foundation. We are pleased with the enthusiastic response to our request for information to be included in the Alumni News section.

We need your financial assistance in many areas—cost of publication of the *Newsletter*, scholarships for worthy undergraduate and graduate geology students, and teaching and research equipment—and others.

CAN WE COUNT ON YOUR SUPPORT?

If so, please use the enclosed remittance envelope indicating the designation of your gift.

ALUMNI EVENTS

Each year the Department plans several events to allow ex-students of the Department to gather with friends, as well as to visit with faculty and current students of the Department. We appreciate the participation of all our friends, and welcome suggestions for future alumni functions.

Alumni attending the Society of Exploration Geophysicists Meeting in Las Vegas last September participated in a cocktail party rather than a breakfast. A similar party is being planned for the Atlanta meeting in December.

Our annual cocktail party at the Geological Society of America meeting in Indianapolis last October was well attended by both ex-students and faculty from the Department. All enjoyed reminiscing and catching up on recent happenings with old friends. Next year's cocktail party for the GSA Reno annual meeting is planned for Monday, November 5, from 6-8 p.m., location to be announced.



Jack Larsen reads citation on award presented to Don Boyd.



GCAGS luncheon, clockwise from left: Dan Smith, Karl Hagemeyer, Arthur Cleaves, Preston Walters, Sam and Doris Bartlett, Mary and Glenn Hatcher.

The Department's annual open house and barbecue was held somewhat earlier than usual, on October 1, due to the Centennial celebration. Our festivities coincided with the campus-wide Showcase, which featured many exhibits and tours of facilities all across campus. About 150 participated in our barbecue lunch, and many others toured the featured exhibits in the Geology Building. The new VAX computer was put through its paces for the benefit of those interested in its capabilities in our geophysics program. The Institute for Geophysics and Bureau of Economic Geology were also open for visitors. Spectators at the UT-Rice game that evening were treated to spectacular pre-game and half-time shows. All in all, the day was a wonderful culmination of Centennial activities. This year's open house will be held on October 20, the day of the UT-Arkansas football game.

Jackson, Mississippi was the sight of the alumni luncheon held in conjunction with the Gulf Coast Association of



Al Scott awards certificate to Bill Carlson

Geological Societies meetings late in October, 1983. Although only about 30 persons attended the UT luncheon, our faculty had an opportunity to interact with ex-students about graduate enrollment, job opportunities for our graduates, and other subjects of mutual interest. The 1984 GCAGS UT alumni luncheon will be held on Thursday, October 25 in Shreveport, Louisiana at the Regency Motor Hotel, Pavilion IV.

For the first time, a UT geology alumni breakfast was held at the Southwest Section AAPG meeting in Midland on February 7. Approximately 80 ex-students attended, including several members of the Geology Foundation Advisory Council. Earle McBride, Al Scott, and Bill Fisher recounted recent Department and campus events for the group. Special thanks go to Harry Miller, whose care in making the arrangements for the breakfast contributed greatly to its success.

As always, large numbers of UT exes were on hand for the American Association of Petroleum Geologists Annual Meeting, particularly so this year in San Antonio. Once again, the room designated for the UT cocktail party was



Jack Larson presents plaque to Al Scott.

quickly filled, causing the 200 plus exes to seek additional space in adjacent hallways, but the crowded conditions didn't appear to hamper conversation.

The next morning, 110 alumni and friends of UT gathered at the Marriott for the annual awards breakfast. Congratulations were in order at that time for Bill Fisher, not only for being elected President-Elect of AAPG, but also for assuming the new administrative posts of Chairman of the Department and Director of the Geology Foundation in addition to his duties as Director of the Bureau of Economic Geology.

A special presentation was made by Jack Larsen, Chairman of the Advisory Council, to Don Boyd, who chaired the Council from 1980 to 1983. Jack cited outstanding contributions by Don to the administration of the Geology Foundation and concern for the Department.

Surprise awards were made to Earle McBride upon the conclusion of his four-year term as Chairman of the Department, and also to Al Scott, in recognition of his 25 years of teaching in the Department and service as Director of the Geology Foundation for the past year.



AAPG-San Antonio, left to right: O. S. Petty, Sr., Dottie and Sam Ellison, Jan and Ben Carsey.

This year two assistant professors were recipients of the Houston Oil & Minerals Faculty Excellence Awards. Bill Carlson's award recognized his excellence in teaching and supervision of graduate research, documented in letters of recommendation from several of his students, and also for outstanding service as Undergraduate Advisor for the past two years. Gary Kocurek, who was unable to attend the breakfast, was also honored for his effectiveness in teaching and research supervision, and for his contribution to Departmental administration as Chairman of the Admissions and Support Committee during the past year. The Houston Oil & Minerals awards carry a cash prize of \$2,000 each.



Earle McBride accepts congratulations from Jack Larsen.

The Graduate Petrography Award winner was Larry Mack, a PhD candidate under the supervision of Lynton Land. Larry received his BS degree from the University of California at Santa Cruz, and his Master's degree from UT under the supervision of Earle McBride. He received a cash award of \$1,000 for his performance on the written examination and interpretation of hand specimens and microscope slides.

Mark W. Martin was the recipient of the \$250 cash prize as Undergraduate Petrography Award winner. Mark's geology grade point average is 3.5, and his overall grade point average is 3.4. He has received several scholarships as a geology major, and has successfully completed GEO 379H, the honors tutorial course under the supervision of Mark Cloos. He will begin graduate work at the University of North Carolina at Chapel Hill in the fall of 1984.

We look forward to next year's AAPG breakfast in New Orleans. Thanks to all our ex-students for making the various UT alumni events pleasant experiences for everyone.



AAPG-San Antonio, left to right: Kathy Fernalld, Clayton Wilson, Feather Wilson.

Faculty Appointments To Endowed Positions

The University administration has approved several new faculty appointments to endowed positions for the 1984-85 academic year. Nominees for these positions were selected by the faculty and the chairman of the Department.

The William T. Stokes Centennial Teaching Fellowship, held this past year by Sharon Mosher, will be held in 1984-85 by Mark Cloos. Dr. Cloos is an assistant professor who has been teaching in the Department since 1981. A structural geologist, Dr. Cloos last year received the Houston Oil & Minerals Corp. Faculty Excellence Award for his performance as a teacher and researcher.

The John A. and Katherine G. Jackson Centennial Teaching Fellowship will be held by Dr. Clark Wilson, a geophysicist. Dr. Wilson will be the first recipient of this Fellowship which was established through the generosity of Mr. and Mrs. Jackson of Dallas in 1983. Dr. Wilson joined the Department in September, 1976, and is now an associate professor. He received his PhD from the University of California at San Diego in 1976.

Dr. William D. Carlson is the first faculty member appointed to the Joyce Bowman Payne Centennial Teaching Fellowship in the Department. Established by Bill R. Payne in his wife's memory in 1983, this fellowship will provide a salary supplement for Dr. Carlson for the coming year. Bill Carlson joined our faculty in 1980 as an assistant professor. He has distinguished himself during the past four years by receiving the Carolyn G. and G. Moses Knebel Teaching Award at the end of his first year of teaching, and by his designation as the recipient of the Houston Oil & Minerals Faculty Excellence Award for 1984.

Dr. Dan Barker will continue for another two-year appointment as the Fred M. Bullard Professor. A 21-year teaching veteran in the Department, Dr. Barker is certainly deserving of this professorship which is intended to honor a distinguished teacher.

Dr. Bill Galloway will again be appointed as the Leslie Bowling Professor for the fall semester, 1984. As the Bowling Professor, Dr. Galloway, a Research Scientist with the Bureau of Economic Geology, has taught Exploration Petroleum Geology-Basin Analysis as a senior elective and graduate course during the fall semester for the past two years. This particular course has been well received by our majors and graduate students, and we are delighted that Dr. Galloway will provide his expertise again during the coming year.

JOHN MAXWELL RETIRES



John and Marian Maxwell receive a certificate worth 100 pounds of sunflower seeds from faculty as reported by Earle McBride.

In May of this year, John Maxwell, recipient of the William Stamps Farish Chair in Geology since 1970, retired from teaching in order to devote more time to his family, travel, and his hobbies, including bird watching. John plans to keep active in geology, including continuing his work in the California Coast Ranges and Klamath Mountains, but at a more leisurely pace. A reception honoring John and Marian was held May 4th in the Knopf Room of the Undergraduate Academic Center on campus. Nearly 100 people, including former and current graduate students, faculty members and spouses, other friends and the Maxwell's daughter, Marilyn, and her husband, John Caldwell, helped celebrate the event.

Bill Muehlberger, Earle McBride and former-student Dave Lehman recounted remembrances, among others, where John had demonstrated to them the technique of doing competent field mapping that inspired them to work harder and more carefully. Jean Smith told of some of her memorable travels in the south of France with Marian, who also is an adventuresome traveler. Foregoing the once-traditional retirement gift watch, the Maxwells were presented with accouterments to help them enjoy their bird watching: 100 pounds of sunflower seeds, a new National Geographic book on birds, and 15 years membership in the Audubon Society.

John joined the Department in 1970 after having served Princeton University for 24 years as a faculty member and also as chairman, first of the Department of Geological Engineering (11 years) and then of the Department of Geological and Geophysical Sciences (4 years).

After being lured to UT Austin with the promise that he would never be asked to serve as chairman, John, in association with his graduate students, initiated a comprehensive study of the structure and tectonic history of the Klamath Mountains and of the adjacent Franciscan Group and Great Valley Sequence exposed in the California Coast Ranges. This project has resulted in the completion of 8 Ph.D. dissertations and 3 Master's theses, and several students are in the final stages of completing additional work. This ongoing project has generated new geologic maps and ideas that are helping to unravel the history of some of the most complex Mesozoic rocks ever encountered.

John has been a strong supporter of professional organizations, having served as president of both the American Geological Institute (1971) and Geological Society of America (1973), and has served and continues to serve the National Research Council and other government agencies in several capacities.

We wish John a long and rewarding retirement, but we expect him to continue to be active in his research in California and mountain belts of the world.



John and Marian Maxwell with daughter and son-in-law, Marilyn and John Caldwell.

New Endowments in Geology Foundation

The past year's progress in terms of new endowments has been most exciting. Last summer we were advised that the State Legislature had consented to extend what had been known as the Centennial Teachers and Scholars Program for an additional two-year period (until the end of 1985), naming the extended program the Regents Teachers and Scholars Program. Under the guidelines of the program, any gifts of \$20,000 or more for endowed faculty positions pledged by August 31, 1985 and paid by August 31, 1987 are eligible for matching money from the Regents. As evidenced by the new endowments described below, this program extension has been tremendously successful for our Department. Total endowment in the Geology Foundation now exceeds \$8.5 million, due in large part to the Regents matching contributions.

In August, 1983 the Board of Regents accepted a \$1,000,000 pledge to the University by the Fondren Foundation of Houston. The Department of Geological Sciences will receive \$500,000 in Regents matching funds from that gift to establish the *Edwin Allday Centennial Chair in Subsurface Geology* in 1985. This chair will greatly aid our program in the training of petroleum geologists, due to the importance of excellent training in subsurface geology for exploration geologists. The Allday Centennial Chair assures that this level of education will be achieved on a long-range basis.

The Department has also received benefits under an Annuity Trust established by Mr. Allday. The income from this bequest will be used to establish the *Edwin Allday Lectureship in Geological Sciences*. With the Regents matching funds in addition to anticipated future earnings over the duration of the Trust, the eventual sum in the endowment should exceed \$200,000. Mr. Allday graduated from UT with both BS (1951) and MA (1953) degrees in geology. He was an independent oil and gas operator in Houston at the time of his death.

In June, 1984 Mr. and Mrs. Don R. Boyd of Corpus Christi pledged \$20,000 to establish the *Don R. and Patricia Kidd Boyd Lectureship in Petroleum Exploration* in the Department of Geological Sciences. Mr. and Mrs. Boyd have asked that the Regents matching funds be added to their contribution to create one lectureship. It is their

intent that the income from this endowment be used to pay the expenses and honorarium of no more than one person per year to give a series of lectures on various and timely aspects of petroleum exploration that would be interesting and beneficial to young geologists. Mr. Boyd received a BS in geology from UT in 1958, and his wife received her BBA from UT in 1957. Mr. Boyd served as chairman of the Geology Foundation Advisory Council from September 1980 through August 1983. The Boyds' gift is made with great appreciation for all that the University of Texas has meant to them and to their children as well.

Elf Aquitaine Petroleum has established an endowment entitled the *Elf Aquitaine Petroleum Faculty Fellowship in Geological Sciences*. Societe Nationale Elf Aquitaine through Elf Aquitaine Petroleum wishes to support research and scientific work on the university level in the geological sciences in the United States as it does in other countries of the world. For that reason, the company has pledged the sum of \$50,000 for this fellowship bearing its name, and has requested that Regents matching funds be added to their initial gift for a \$100,000 endowment. The fellowship will be awarded on an annual basis in accordance with University procedures to a deserving faculty member in any discipline within the Department of Geological Sciences. Mr. Weyman Crawford (BS in geology from UT in 1950), Executive Vice President of Elf Aquitaine Petroleum in Houston, was instrumental in arranging this generous gift.

The Geology Foundation Advisory Council has requested the establishment of the *Geology Foundation Advisory Council Centennial Teaching Fellowship in Geological Sciences*. This endowment is funded from the Centennial Teachers and Scholars Program as the matching contribution to the John A. and Katherine G. Jackson Centennial Teaching Fellowship, which was funded by Mr. and Mrs. Jackson and the Advisory Council in 1983. This \$50,000 endowment will provide income for supplemental support for a deserving junior faculty member in the Department.

An anonymous donor has given an initial gift of \$20,000 to establish a lectureship in the Department of Drama in memory of Clara Jones Langston. The matching portion of

that gift has been used to establish the *Clara Jones Langston Centennial Lectureship in Vertebrate Paleontology* in the Department of Geological Sciences. The purpose of this lectureship is to provide for distinguished persons in the field of vertebrate paleontology to present results of their research to students and faculty.

Mr. Judd H. Oualline has contributed gifts to establish the *Judd H. Oualline Endowment Fund* in the Geology Foundation. Use of earnings from the fund is to address special needs of the Department of Geological Sciences as recognized by the Department chairman. Use of the funds remains flexible so as to address the range of possible needs that may arise including purchase of equipment, support of faculty research, support of undergraduate and graduate students, and other needs. An endowment of this type will be most helpful to the chairman in meeting immediate

needs in the Department.

In April, 1984 the Board of Regents approved the establishment of the *Bill R. Payne Centennial Teaching Fellowship* in the Department of Geological Sciences. This endowment was established with Centennial Teachers and Scholars Program funds which were reserved from the establishment in 1983 of the Joyce Bowman Payne Centennial Teaching Fellowship, an endowment provided by Mr. Payne in memory of his wife. Teaching fellowships are a significant means of providing financial support for junior faculty in the Department at a crucial time in their careers.

We are deeply grateful for the tremendous support shown by the individuals and companies represented by these new endowments. Certainly their generosity is a major factor in aiding our efforts to provide excellence in geological education.



Dr. Peter Flawn receives check for first installment of Gulf Oil's contribution for endowments, including \$100,000 for Geological Sciences. From left, Dr. Earle McBride, chairman of the Department of Geological Sciences; Dr. Robert E. Boyer, dean of the College of Natural Sciences; Dr. Gerhard J. Fonken, vice president for academic affairs and research; Dr. Flawn; Mr. Phillip Wyche, executive vice president, Gulf Oil Corp.; Dr. Joel W. Barlow, professor of chemical engineering; Dr. Myron H. Dorfman, chairman of the Department of Petroleum Engineering, and Dr. Charles A. Sorber, associate dean for academic affairs, College of Engineering.

REPORT FROM THE ADVISORY COUNCIL CHAIRMAN

The Geology Foundation was created 30 years ago by the Board of Regents to foster and promote the growth, progress and development of geological education, research and graduate study at The University of Texas. Funds were to be used exclusively for the stated purpose and not for ordinary operations of the department. The Board of Regents maintains exclusive control over the Foundation which is administered by an "Executive Committee of the Geology Foundation" whose five members are recommended by the President of the University and appointed by the Board. These members consist of one of the staff of the Bureau of Economic Geology and the remainder from the permanent professorial staff of the Department of Geological Sciences. These five, in turn, elect a Chairman. The Executive Committee makes all recommendations to the President of the University for the allocation and expenditure of funds from the Foundation. The President then seeks final authority for expenditure from the Board of Regents. Along with the announcement of the organization of the Geology Foundation, it was noted that alumni and friends had contributed \$1,010 to the Foundation.

The first printed record of the Geology Foundation Advisory Council was in the *Newsletter* of July 1956 where it listed 15 members. This list of illustrious geologists reads like the Who's Who of the oil business and includes two members, O. Scott Petty and Charles Yager, who are still serving the Foundation today as Honorary Life Members. The Advisory Council has grown through the years and on its 25th anniversary in 1979 had 35 members and was credited with raising over \$2,000,000 in endowments. Included were the first endowed chair on the UT-Austin campus and seven endowed professorships. Today we have 36 members and seven honorary life members, and our endowments total about \$8,500,000. We have endowed four Chairs, 18 Professorships, five Lectureships and six Teaching Fellowships. There are also numerous other endowed accounts that provide funds for students, professors and various needs of the department. This remarkable growth was due in large part to the happy circumstance of the University having the Permanent University Fund as well as an enlightened President and a Board of Regents who were willing to use portions of it during the Centennial Celebration years in an effort to create a world-class university. But it was more than that. The Advisory Council has served as a liaison between the department and the alumni and industry. Through its efforts, the needs and aspirations of the department were made known and funds raised to meet them. On the other hand, the needs of industry have been noted and efforts made to accommodate them by the department. The present emphasis on geophysics is a case in point. Through the *Newsletter*, contact is

maintained with the thousands of alumni, most of whom are proud of what has been achieved and who share our aspirations for the Department of Geological Sciences to be the best in the land.

Much has been accomplished but there is a need for much more. Through our many endowed teaching accounts, we should be able to offer salary supplements to attract the best professors in the world. However, such candidates require more than money; they require modern, state of the art equipment for their research. Such equipment requires proper maintenance and technicians to operate efficiently. Funds for such are not available in the department's budget and can only be provided through the efforts of the Advisory Council and its friends.

We appreciate all the help in the past and seek your continued support of the Geology Foundation.

Jack K. Larsen
Chairman, Advisory Council

New Advisory Council Member



Robert K. Steer

Mr. Robert K. Steer received Council approval at the spring meeting to become a new member of the Advisory Council beginning September 1, 1984. He received a BS in geology from UT in 1953, and then began his career with what is now Exxon. From 1978-79 Mr. Steer was manager of the Production Department, Exploration Division of Exxon Corporation. In 1979 he became Operations Manager of the Exploration Department for Exxon USA Headquarters, then in 1981 became Executive Vice President and Director of Esso Exploration, Inc. A resident of Houston, Mr. Steer has been a long-time friend of the University as a Life Member of the Ex-Students' Association, and has been most supportive of the Department of Geological Sciences. He is also an active member of the American Association of Petroleum Geologists, the American Petroleum Institute, and the Houston Geological Society.

Geology Foundation News

Summary of Activities

The past year continued the great productivity in funding created by the University's celebration of the UT Centennial. As indicated in last year's *Newsletter*, the establishment of the Centennial Teachers and Scholars Program has generated hundreds of new faculty endowments across the campus. That program has now been extended under the name of the Regents Endowed Teachers and Scholars Program, with opportunity for matching monies from the Regents. Gifts and pledges for endowed positions made by August 31, 1985 with pledges fulfilled by August 31, 1987 will be matched in appropriate academic areas. The Department of Geological Sciences once again has been treated most kindly by our ex-students and companies who have responded to our needs. An accompanying article outlines the extent of this generosity in establishing new endowments during the past year.

An endowment that has special significance for our Department is the establishment of the Peter T. Flawn Professorship in Geology. It is the intent of the Geology Foundation Advisory Council that this endowment should reach \$500,000 so that it can be elevated to the Peter T. Flawn Chair in Geology. Toward that end, the Council has worked diligently over the past several months to accomplish that goal. Jack Larsen, Advisory Council chairman, has coordinated efforts of several Council members and other friends of Pete Flawn who have contacted alumni and friends in various geographic areas to gain support for the Flawn Chair. In the Austin area, Frank McBee has been most successful in seeking contributions. Don Boyd and Hayden Head in Corpus Christi were responsible for a luncheon which garnered considerable assistance from that area. Fred Oliver, Bill Stokes and others in the Dallas area hosted a social function which resulted in substantial support. A luncheon in Houston was hosted by Tom Barrow, Joe Walter, and Phil Wyche, and was most successful. The San Antonio area is organized under the

direction of Gene Ames and Scott Petty, and is planning a fundraising effort in the near future. Dick Bloomer has assisted in the Abilene area, Decker Dawson, Harry Miller and George Donnelly have worked in the Midland area; Bill Reynolds is organizing the Wichita Falls area. Jim Bob Moffett and George Schneider have been active in seeking support in Louisiana. Mrs. Shirley Bird Perry, Vice President for Development and University Relations, has been instrumental in this effort, as has been Dean Robert E. Boyer. The result of all these efforts is that the total endowment as of July 1 stands at approximately \$475,000, only \$25,000 short of our goal. We hope that by the time you receive this *Newsletter*, our goal will have been met. We express our thanks not only to all those listed above who have helped us toward this goal, but to all our many alumni and friends who have contributed to the establishment of this fund.

Attention was focused on the pressing need for money for new equipment in the Department during both the fall and spring meetings of the Advisory Council. Dr. Lynton Land expressed the needs outlined by the Department's Equipment Committee for both the immediate future and the next several years (see article elsewhere in this *Newsletter* entitled "Crisis in Instrumentation"). This area will continue to be addressed and as many avenues as possible explored for funding of our equipment needs.

At the spring Council meeting, the Geology Foundation Faculty Review Committee recommended Bill Fisher to succeed Al Scott as the Director of the Geology Foundation. The Advisory Council approved that recommendation. Dr. Fisher's duties as Director will be in addition to his duties as Department Chairman beginning in September.

We express our sincere thanks to Mr. John Bookout whose term on the Council expired August 31, 1984. Mr. Bookout has served on the Council since 1978, but declined renomination due to business obligations.

ADVISORY COUNCIL MEMBERS STAND FOR AAPG OFFICES

Mr. Don R. Boyd (B.S. U.T., 1950), Corpus Christi member and Past-Chairman of the Geology Foundation Advisory Council is a candidate for the Office of President-Elect of AAPG. He is opposed by Mr. Bernold Hanson of Midland.

Dr. Richard R. Bloomer (Ph.D., U.T., 1949), Abilene member of the Geology Foundation Advisory Council is a candidate for the Office of Secretary of AAPG. He is opposed by Mr. Billy Walter Roberts of Billings.

Balloting will be conducted in the spring of 1985 with elected candidates taking office July 1, 1985.

Geology Foundation Advisory Council

Effective September, 1984

Chairman

Mr. Jack K. Larsen, Consultant, #4 Lancaster, Amarillo, TX 79106

Vice Chairman

Mr. Judd H. Oualline, Consultant, 214 Blalock Road, Houston, TX 77024

Mr. Charles W. Alcorn, Jr., President, Alcorn Development Company, P. O. Box 3187, Victoria, TX 77901

Mr. Eugene L. Ames, Jr., President, Venus Oil Company, 2100 NBC Building, San Antonio, TX 78205

Dr. Thomas D. Barrow, Vice Chairman, Standard Oil Co. of Ohio, c/o Sohio Petroleum Co., 3050 Post Oak Blvd., P. O. Box 4587, Houston, TX 77210

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Mr. George A. Donnelly, Jr., President, The Eastland Oil Company, P. O. Box 3488, Midland, TX 79701

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Mr. William E. Gipson, President, Pogo Producing Company, P. O. Box 2504, Houston, TX 77001

Mr. Neil E. Hanson, Independent, 9235 Katy Freeway, Suite 400, Houston, TX 77024

Mr. George M. Harwell, Executive Vice President, Bayleaf, Ltd., 1100 Milam Building, Suite 3135, Houston, TX 77002

Mr. Charles J. Hooper, Independent, 3355 W. Alabama, Houston, TX 77098

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Mr. Edd R. Turner, 900 West Main Street, Kerrville, TX 78028

Mr. Joseph C. Walter, Jr., Walter Oil & Gas Corporation, Suite 240, The Main Building, 1212 Main Street, Houston, TX 77002

Mr. Charles E. Yager, 3801 Potomac, Fort Worth, TX 76107

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To all the donors listed below we want to express our deepest appreciation for their generous support

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George B. Coffin
H. Grady Collier, Jr.
- James H. Colvin
Michael D. Conger
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John D. Cooper
W. H. Crain, Jr.
Weyman W. Crawford
John H. Dante
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Robert L. Layden
Bill Layton
Max Levin
S. Susan Levy
Sandra Lindquist
Eugene Lipstate
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Allen C. Locklin
Mr. & Mrs. John L. Loftis
Archie T. Long
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David F. Martineau
Louis M. Martinez
Frank W. McBee, Jr.
Robert L. McBroom
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Duncan McConnell
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Jude McMurry
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Charles M. Merrill
Mario L. Messina
Dean Metts
Harry A. Miller, Jr.
Larry D. Miller
Roy D. Miller
Wayne D. Miller
Richard A. Mills
William C. Milstead
Robert J. Moffatt
Mr. & Mrs. James R. Moffett
William A. Monroe
Glen R. Moore
J. B. Moorhead
Mr. & Mrs. Marvin D. Moos
Duane E. Moredock
Julian H. Morgan
Susan D. Morris
Marian Morris
Michael B. Morris
David W. Morrow
Grover E. Murray
Lee Ann Musgrove
Roy L. Naumann
G. Allan Nelson
Tom E. Nelson, Jr.
John H. Newcomb
Ronald W. Nordquist
Isaac W. Norman
Bob R. O'Brien
Mr. & Mrs. J. W. Oden
A. M. Olander
Fred L. Oliver

Harold D. Orr
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John W. Parker
Robert L. Parker
Gaston H. Parrish
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Wilbur A. Ratchiff
Donald F. Reaser
Robert C. Redfield
David B. Remick
William F. Reynolds
Wade C. Ridley
Jess P. Roach
Rock Robertson
Michael F. Roden
James E. Rogers
J. W. (Bill) Rogers
Randall S. Rosenberger
W. Wayne Roye
Paul F. Sagasta
Richard L. Scheig
Olfert E. Schellhase
Judith Ann Schiebout
George W. Schneider, Jr.
Milton R. Scholl, Jr.
John T. Schulenberg
Alan J. Scott
F. Augustus Seamans
Clyde R. Seewald
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D. B. Sheffield
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Samuel J. Sims
Robert S. Singer
Marriott W. Smart
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Bruce D. Smith
C. B. Smith, Sr.
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Abdullah H. Tariki
James B. Tartt
Mary Ann G. Taylor
Mr. & Mrs. Larry E. Temple
Bert C. Timm
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Mr. & Mrs. John U. Tonetti
Richard F. K. Tothill, Jr.
Peyton L. Townsend, Jr.
Everette J. Travis
Robert F. Travis
John L. Treat
Roy W. Tronrud
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Edd R. Turner
Fred E. Turner
Leroy J. Tydlaska
David W. Vernon
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Charles J. Worrel
Phillip E. Wyche
Milan K. Yager
Julian H. Zimmerman

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to the Department of Geological Sciences
June 1, 1983–May 31, 1984**

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Mrs. Mollie Grimes
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Earle F. McBride
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to the Foundation
June 1, 1983–May 31, 1984**

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Union Pacific Foundation
Warner-Lambert Co.

**Geology Foundation Endowment Accounts
(June 1, 1983–May 31, 1984)**

Fund	Goal	Current Endowment	1983–84 Expenditures
Alternative Energy Research and Development Fund	Unspec.	*	-0-
For study of energy sources other than petroleum			
Leonidas T. Barrow Chair in Mineral Resources	Unspec.	\$685,655	-0-
Development of program of excellence in mineral resources; income supple- ments recipient's salary			
Leslie Bowling Professorship			
To attract persons from industry and government for short-term appoint- ments on the faculty	\$100,000	\$100,000	\$ 4,415
Wayne F. Bowman Endowed Presidential Scholarship	Unspec.	\$ 90,429	\$ 6,000
Unrestricted geology scholarships any level			
Robert E. Boyer Professorship			
Income supplements salary of recipient	Unspec.	\$107,061**	\$ 7,785

* Income from sale of dock facility donated to Geology Foundation

** Does not include stock being held at book value of \$252,000.

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>1983-84 Expenditures</i>	<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>1983-84 Expenditures</i>
Brahman Energy Scholarship Senior field course scholarships	Unspec.	\$ 15,095	\$ 1,500	John E. "Brick" Elliott Centennial Professorship in Geological Sciences Income supplements salary of recipient	Unspec.	\$207,797	\$ 14,772
Fred M. Bullard Professorship Excellence in teaching, income supplements salary of recipient	\$100,000	\$100,000	\$ 4,441	Samuel P. Ellison, Jr. Endowment Fund For Department <i>Newsletter</i> and support of faculty-alumni functions	\$100,000	\$ 58,314	\$ 4,182
Hal P. Bybee Memorial Fund Faculty use—research travel, study, etc.	\$500,000	\$326,963	\$16,920	Energy and Mineral Resources Fund Support of programs and students in energy and mineral resources	\$100,000	\$ 22,921	\$ 520
L. W. Callender Memorial Fund Departmental use, unrestricted	Unspec.	\$ 50,000	\$ 3,627	William Stamps Farish Chair of Geology Income supplements salary of recipient	Unspec.	\$300,000	\$ 26,716
Dave P. Carlton Centennial Professorship in Geology Income supplements salary of recipient	Unspec.	\$410,740	\$33,248	Peter T. Flawn Centennial Professorship in Geology Income supplements salary of recipient	\$500,000	\$410,632	-0-
Dave P. Carlton Centennial Professorship in Geophysics Income supplements salary of recipient	Unspec.	\$411,369	\$13,496	Fund for Motivated Students Financial aid for students not qualified for scholarships	Unspec.	\$ 28,629	\$ 1,000
Dorothy Odgen Carsey Memorial Scholarship Fund Geology Scholarships, any level; special consideration: micropaleontology students	Unspec.	\$ 73,165	\$ 5,039	Getty Oil Co. Centennial Chair in Geological Sciences Income supplements salary of recipient	\$500,000	\$500,000	\$ 7,710
S. E. Clabaugh Fund in Hard-Rock Geology To support research in hard-rock geology	Unspec.	\$ 20,021	-0-	Miss Effie Graves Memorial Fund Department needs (faculty support, student aid, special equipment, etc.)	Unspec.	\$ 23,033	-0-
Robert H. Cuyler Endowed Presidential Scholarship Undergraduate (upper division) and graduate scholarships	Unspec.	\$ 38,604	\$ 2,000	Guy E. Green Endowed Presidential Scholarship Fund Geology scholarships, any level	Unspec.	\$ 26,208	\$ 2,000
Morgan J. Davis Centennial Professorship in Petroleum Geology Income supplements salary of recipient	Unspec.	\$361,535	\$11,246	J. Nalle Gregory Professorship in Sedimentary Geology Development of program of excellence in sedimentary geology, income supplements salary of recipient	Unspec.	\$102,786	\$ 9,057
Ronald K. DeFord Field Scholarship Fund Field studies for graduate students	Unspec.	\$128,726	\$ 2,283	Gulf Oil Foundation Centennial Professorship in Geology Income supplements salary of recipient	\$100,000	\$ 50,000	-0-
Alexander Deussen Professorship of Energy Resources Development of program of excellence in energy resources; income supplements salary of recipient	Unspec.	\$108,255	\$ 8,997	George S. Heyer Memorial Fund Any purpose of the Foundation	Unspec.	\$ 84,570	\$10,726
Michael Bruce Duchin Endowed Presidential Scholarship Scholarship for Master's candidate with preference toward general geology	\$ 25,000	\$ 26,075	\$ 2,000	William C. Hogg Memorial Scholarship Fund			
Elf Aquitaine Petroleum Faculty Fellowship Income supplements salary of junior faculty member	\$ 50,000	\$ 12,500	-0-				

General Information:

The total Hogg endowment (in the sum of \$235,918) for all of the scholarships (a total of six) is carried in one Common Trust Fund account: the income is credited to one expendable account and distributed from there at the end of the fiscal year to each of the six scholarship accounts. Geology holds two of the six accounts.

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>1983-84 Expenditures</i>	<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>1983-84 Expenditures</i>
Hogg-Cullinan Scholarship in petroleum or field geology in honor of Joseph S. Cullinan	Unspec.	As above	\$ 1,800	Carroll C. Miller Endowed Presidential Scholarship Geology scholarships to students in pursuing careers in energy industries; preference to students from south Texas	Unspec.	\$ 29,673	\$ 2,000
Hogg-Sharp Scholarship in petroleum or field geology in honor of Walter Benona Sharp	Unspec.	As above	\$ 4,150	Judd H. Oualline Endowment Fund For special needs of the Department	Unspec.	\$ 10,000	-0-
Houston Oil & Minerals Corporation Faculty Excellence Awards In recognition of outstanding service and special contributions to the teaching and research programs	\$ 40,000	\$ 40,000	\$ 4,000	Judd H. and Cynthia S. Oualline Centennial Lectureship in Petroleum Geology To provide for guest lecturers in petroleum geology	\$ 20,000	\$ 20,000	-0-
John A. and Katherine G. Jackson Centennial Teaching Fellowship Income supplements salary of junior faculty member	\$100,000	\$ 65,000	-0-	Ed Owen-George Coates Fund Publication of geologic research related to Texas by faculty and graduate students	Unspec.	\$103,522	\$ 4,861
Carolyn G. and G. Moses Knebel Teaching Awards Annual Distinguished Teacher Award, Innovative Improvement and New Course Development	Unspec.	\$ 71,349	-0-	Joyce Bowman Payne Centennial Teaching Fellowship Income supplements salary of junior faculty member	\$ 50,000	\$ 43,400	-0-
Clara Jones Langston Centennial Lectureship in Vertebrate Paleontology To provide for guest lecturers in vertebrate paleontology	\$ 20,000	\$ 20,000	-0-	O. Scott Petty Geophysical Fund Development of program of excellence in geophysics	\$100,000	\$104,123	\$ 9,858
Wann & Marietta Langston Research Fund in Vertebrate Paleontology Faculty research in vertebrate paleontology	\$ 50,000	\$ 43,444	\$ 1,190	Wallace E. Pratt Professorship in Geophysics Development of program of excellence in geophysics; income supplements salary of recipient	Unspec.	\$117,679	\$ 7,831
Howard R. Lowe Vertebrate Paleontology Endowment Support of student field work in vertebrate paleontology	Unspec.	\$ 23,098	\$ 2,775	Wilton E. Scott Centennial Professorship Income supplements salary of recipient	\$200,000	\$201,000	\$11,199
J. Hoover Mackin Memorial Scholarship Fund Graduate geology scholarships	\$ 20,000	\$ 17,895	-0-	Shell Companies Foundation Distinguished Chair in Geophysics Income supplements salary of recipient	\$750,000	\$150,000	\$ 9,173
John H. & Lujza P. McCammon Endowed Scholarships Upper-division undergraduate scholarships	\$ 10,000	\$ 10,150	\$ 500	Shell Companies Foundation Centennial Chair in Geophysics Income supplements salary of recipient	\$750,000	\$250,000	-0-
Mr. & Mrs. L. F. McCollum Scholarship Fund Geology scholarships, any level	Unspec.	\$ 12,574	\$ 400	Frederick W. Simonds Endowed Presidential Scholarship Scholarships to undergraduate (upper division) and graduate students	\$ 25,000	\$ 25,205	\$ 2,400
Mesa Petroleum Co. Fund in Sedimentary Geology Support of the Department program in sedimentary geology	Unspec.	\$108,758	\$ 1,316	William T. Stokes Centennial Teaching Fellowship Income supplements salary of recipient	\$ 50,000	\$ 50,000	\$ 3,484
Frank W. Michaux Scholarship Fund Geology scholarships, any level	Unspec.	\$ 10,266	\$ 1,200	David S. Thayer Memorial Scholarship Fund Senior field course scholarships	\$ 25,000	\$ 25,960	\$ 1,300

Graduate Scholarships

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>1983-84 Expenditures</i>
Tobin International Geological Map Collection For purchase of maps and photos, storage and viewing facilities for these items	\$100,000	\$ 67,887	\$ 3,410
Udden Memorial Scholarship Geology scholarships at any level	Unspec.	\$ 10,030	\$ 100
Various Donors (General) Unrestricted funds for furtherance of basic geological education, research, graduate study, field work, travel, Foundation operation, salaries, etc.	Unspec.	\$ 16,840	\$75,996
Joseph C. Walter, Jr. & Elizabeth C. Walter Geology Library Fund Acquisition of books, maps and other library materials	Unspec.	\$511,615	\$25,326
E. A. Wendlandt Fund Purchase of books and journals in German or English translations	Unspec.	\$ 6,245	†
Arno P. (Dutch) Wendler Professional Development Fund Support of graduate student presentations at professional meetings	Unspec.	\$ 73,970	\$ 5,063
Francis L. Whitney Endowed Presidential Scholarship Geology scholarships, any level, paleontology and stratigraphy preferred	Unspec.	\$ 35,029	\$ 2,000
Francis L. Whitney Memorial Book Fund Purchase of paleontological books for library	Unspec.	\$ 11,106	-0-
John A. Wilson Professorship in Vertebrate Paleontology Development of program of excellence in vertebrate paleontology; income supplements salary of recipient	\$100,000	\$100,257	\$ 8,956
Charles E. Yager Undergraduate Field Scholarship Fund Support of students taking Geology 660	Unspec.	\$ 41,258	\$ 5,000
Mr. & Mrs. Charles E. Yager Professorships Three professorships undesignated as to area of support	Unspec.	\$300,500	\$26,880

Amoco Doctoral Fellowship in Geology

David A. Wark 1983-84

ARCO Exploration Co. Fellowships

Scott Davis 1983-84
 Laura Elliott Fall 1983
 Paul Gold Spring 1984
 Thomas M. Lehman 1983-84
 Susan L. Thompson 1983-84

Dave P. Carlton Professorship in Geology Student Awards

Ellen Graber Fall 1983
 Victoria Pursell 1983-84
 Pamela A. Tiezzi Fall 1983

Dorothy O. Carsey Memorial Scholarship

Elizabeth Ann Worrel 1983-84

Chevron Graduate Fellowship

Gary Gray 1983-84

Chevron Graduate Field Support

Karen Carter Spring 1984
 Timothy Diggs Spring 1984
 Gary Gray Spring 1984
 Karen Havholm Spring 1984
 John LaFave Spring 1984
 Megan McCrary Spring 1984
 Kenneth Vogel Spring 1984

Conoco Fellowship

Mark Farr 1983-84

Jack Cook Research Grant

Patricia Bobeck Fall 1983

Ronald K. DeFord Field Scholarships

Nancy Banta Fall 1983
 Gray Bebout Spring 1984
 Rosemary Capo Spring 1984
 Steve Carlson Fall 1983
 Emilio Flores Fall 1983
 Paul Gold Fall 1983
 Katherine Nelson Fall 1983
 Brian S. Smith Spring 1984
 Keith Thompson Fall 1983
 Clayton H. Wilson Spring 1984
 Eric Yollick Fall 1983

Duchin Memorial Endowed Presidential Scholarship

Martha E. Cast 1983-84

John E. "Brick" Elliott Endowed Professorship Student Awards

Katherine L. Coley Spring 1984
 Karen L. Herrington Spring 1984
 Peter R. Tauvers Fall 1983

† Both expenditures and expendable balance are recorded in the Geology Library Fund; no separate record maintained.

Exxon Education Fdn. Scholarships

Charles Barrie	Spring 1984
Cecilia Binig	Fall 1983
Chris Bowland	Spring 1984
Rachel Burks	Spring 1984
Steve Carlson	1983-84
Ranaye Dreier	Spring 1984
Scott Hamlin	Fall 1983
Mark Helper	Fall 1983
Ralph Kugler	Fall 1983
Thomas Lehman	Spring 1984
Paul Lundegard	1983-84
Kitty Milliken	1983-84
Jamie Nielson	Spring 1984
Mary Nelis	Fall 1983
Jurgen Oberst	Fall 1983
Martin Sander	Spring 1984
Joel Schneyer	Spring 1984
Rainer K. Senger	Fall 1983
James Stimac	Fall 1983
Pamela Tiezzi	Fall 1983
Mark Ulrich	Fall 1983
Victor Van Beuren	Spring 1984
James Westgate	Spring 1984
Dale Winkler	Fall 1983
Jim Wittke	Fall 1983
Susan Young	Fall 1983

Exxon Teaching Fellowship

Jamie A. Nielson	1983-84
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Getty Oil Co. Scholarships

Nancy Banta	1983-84
Steve Carlson	1983-84
Michael Faust	1983-84
Roberto Gutierrez	1983-84
James Stimac	1983-84
Pamela Tiezzi	1983-84

Hogg/Cullinan Scholarship

Olufemi Babalola	Fall 1983
Calixto Ramirez	Spring 1984

Hogg/Sharp Scholarship

Danial Bodner	1983-84
Karen Havholm	1983-84
Peter R. Tauvers	Spring 1984

Howard R. Lowe Fund in Vertebrate Paleontology

Thomas Lehman	Spring 1984
Martin Sander	1983-84
Jim Vanderhill	1983-84
Anne H. Walton	Spring 1984
James Westgate	Spring 1984

Mesa Petroleum Co. Collegiate Scholarship

Steven M. Cather	1983-84
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Mobil Oil Co. Grant in Geophysics

Galen Treadgold	Summer 1984
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Ed Owen-George Coates Fund

Kimberlee W. Millberry	Spring 1984
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O. S. Petty Geophysical Fund

Scott H. Adamek	Spring 1984
Galen Treadgold	Fall 1983

Phillips Petroleum Fellowship

Donald E. Miser	1983-84
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Schlumberger Research Grant

John R. Jones	Spring 1984
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Shell Co. Fellowship

Mark Helper	1983-84
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Superior Oil Co. Research Grant

Timothy Diggs	Spring 1984
Mary Ann Duncan	Spring 1984

Tenneco Oil Scholarship

Adel R. Moustafa	1983-84
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Texaco Scholarship

Jay N. Vogt	1983-84
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Arno P. Wendler Professional Development Award

Gray Bebout	1983-84
Rachel Burks	Spring 1984
Steven Cather	Fall 1983
Edward Cazier	Spring 1984
Ranaye Dreier	1983-84
Peter Emmet	Fall 1983
Gary Gray	Fall 1983
James Hardwick	Spring 1984
Steve Johansen	Spring 1984
Jennifer Kraft	Spring 1984
Paul Lundegard	1983-84
Mark K. Nelis	Spring 1984
Pamela D. Nielson	Spring 1984
Brian Reck	Spring 1984
Allan R. Standen	Spring 1984
Steven Johansen	1983-84

Undergraduate Scholarships**AMOCO Foundation Scholarships**

Guy A. Felton	1983-84
Ching Ju Hu	1983-84

Wayne F. Bowman Endowed Presidential Scholarships

Jeffrey Martin	1983-84
Mark Martin	1983-84
Paul A. Martinez	1983-84
Laurence M. Page	1983-84
Roger Smith	1983-84

Brahman Energy Scholarships

Bryan J. Ellington	Summer 1984
Nick M. Hauwert	Summer 1984
Kevin Lantz	Summer 1984
Robert M. Myers	Summer 1984
Will M. Satterfield	Summer 1984
Stephen Mark Shelburne	Summer 1984
Jerald David Shetler	Summer 1984
Sheri Leigh Stewart	Summer 1984
John McCulloch Vilas	Summer 1984
Memrie Wilson	Summer 1984

Champlin Petroleum Scholarships

Wacey Daniel	Summer 1984
Linda Harrison	Summer 1984
Maureen Halloran	Summer 1984
James Prikyl	Summer 1984
Martin Romanak	Summer 1984
James F. Scaief	Summer 1984
Paul Kevin Smith	Summer 1984

Chevron USA Inc. Scholarships

William Agee	Fall 1983
Howard B. Larsen	Spring 1984
Arthur V. Seay	1983-84

Continental Oil Co. Scholarships

Sheena R. deSouza	1983-84
Roderick Henley	1983-84
James Lozano	1983-84
Michael Moreno	1983-84
Andrew Okamoto	1983-84
Gilbert Quintero	1983-84

R. H. Cuyler Endowed Presidential Scholarship

Jaime Van Ondrusek	1983-84
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Enserch Scholarships

Paul Martinez	Summer 1984
Brett Pyle	Summer 1984

Exxon Co. Scholarships

Gary Beyer	Spring 1984
David Chow	Spring 1984
David E. Connel	Spring 1984
Rojelio Espinosa	1983-84
Catherine Mayes	Spring 1984
LeCount McLaughlin	Fall 1983
Vickie Nelson	1983-84
Kirk W. Rexrode	1983-84

Fund for Motivated Students

Lesley Bendig	1983-84
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Getty Oil Co. Scholarships

Regina Bonner	Summer 1984
David L. Work	Summer 1984

Guy E. Green Endowed Presidential Scholarship

David L. Work	1983-84
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Charles & Eunice Haas Endowed Presidential Scholarship

Sandra J. Scott	1983-84
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Fred & Nora Haas Endowed Presidential Scholarship

Martin Romanak	1983-84
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Hogg/Sharp Scholarship

Michael Maler	Fall 1983
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Marathon Oil Co. Geophysics Scholarship

Leigh Wood	1983-84
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John H. and Lujza P. McCammon Scholarship

Marcus Key	1983-84
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Mr. & Mrs. L. F. McCollum Scholarship

Scott P. Simmons	1983-84
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Mesa Petroleum Company Collegiate Scholarship

David G. Becker	1983-84
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Frank W. Michaux Scholarships

Ellis S. Belfer	1983-84
Nancy Eilbacher	1983-84
Carla Matherne	1983-84

Carroll C. Miller Endowed Presidential Scholarship

Robert L. Rhudy	1983-84
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Mobil Oil Co. Scholarships

Rosa Linda Carrillo	1983-84
Roderick Henley	1983-84
Jaime Rangel	1983-84

Pennzoil Co. Scholarships

Kathleen Brown	1983-84
Alan Fuqua	1983-84
Brett Pyle	1983-84

Shell Oil Co. Incentive Award

Victor Flores	1983-84
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Frederick W. Simonds Scholarships

Thomas L. Cogswell	Spring 1984
Bridget L. Jensen	1983-84
James F. Scaief	Spring 1984

Sun Oil Co. Scholarships

Regina Bonner	1983-84
Catherine Kantenberg	1983-84
Maria Wood	Fall 1983

Texas Oil & Gas Leadership Award

Paul A. Martinez	Fall 1983
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David S. Thayer Memorial Scholarships

Evan Scott Anderson	Summer 1984
Mark M. Briggs	Summer 1984
Carol A. Doran	Summer 1984
Robert Engels	Summer 1984
Deborah Kitchens	Summer 1984
Todd W. Reynolds	Summer 1984
Traci E. Trauba	Summer 1984

Udden Memorial Scholarship

Curtice Jacoby	Summer 1984
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Union Oil Co. Travel Grants

Mathew Brannon	Fall 1983
Sandra Bruce	Fall 1983
J. Jay Flynn	Fall 1983
Cathy Kentenberger	Fall 1983
Mike Smith	Fall 1983
Carol Swenumson	Fall 1983

F. L. Whitney Endowed Presidential Scholarship

Pamela J. Kramer	1983-84
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Charles E. Yager Undergraduate Field Scholarships

Thomas I. Cogswell	Summer 1984
John J. Farrelly	Summer 1984
Victor Flores	Summer 1984
Karen Ann Frizlen	Summer 1984
Catherine L. Jackson	Summer 1984
Leslie A. Jeske	Summer 1984
Stephen C. Jumper	Summer 1984
Thomas Kirkpatrick	Summer 1984
Terry Lee	Summer 1984
Anne J. Low	Summer 1984
Forrest W. Pace	Summer 1984
Lawrence D. Parks	Summer 1984
Ronald L. Potts	Summer 1984
Jaime Rangel	Summer 1984
Susan M. Roberts	Summer 1984
Paul L. Schumann	Summer 1984
Diana Sneyd	Summer 1984
Jonathan Whitesides	Summer 1984
Matthew K. Wickham	Summer 1984

Enrollment and Degrees

DEPARTMENT OF GEOLOGICAL SCIENCES

1983-84 Academic Year

Undergraduate Enrollment (Fall, 1983)

Total Department Majors:	629
Geophysics Majors:	70 (11%)
Male:	574 (91%)
Female:	55 (8.7%)

Minority Enrollment: 35 males, 8 females
(6.8% of total enrollment)

Undergraduate Majors by Class (Fall, 1983)

Seniors --	369
Juniors --	128
Sophomores --	90
Freshmen --	42

(The preponderance of majors with senior hours stems from the fact that over half the enrollment is comprised of transfers from other schools or from other disciplines within UT. Thus many of these students are actually sophomores or juniors in geology course work.)

Majors with GPA of 3.0 or better --	116
Majors with GPA of 3.5 or better --	36
Majors with GPA of 4.0 --	5
Total BA degrees awarded --	14
Total BS degrees awarded --	94

Graduate Enrollment (Fall, 1983)

Total Department Graduate Majors:	198
Master's Candidates:	137
PhD Candidates:	61
Male:	143 (72%)
Female:	55 (27%)

Graduate Student Support (Fall, 1983)

Teaching Assistant/Assistant Instructor:	52
Research Assistants:	41
Fellowships:	17
Unsupported:	88

UNDERGRADUATE DEGREES

Bachelor of Arts, Summer 1983

Matthew K. Davenport	Robert A. Lemak
Susan E. Kingsbury	Timothy B. Powell

Bachelor of Science, Summer 1983

Elaine M. Allan	Steven B. Johnson
Eugenia Anderson	Raymond J. Kubacki
Gerald L. Atkinson	M. Norman Kurten
Byron A. Bachschmid	Jean A. Lambeth
Fred H. Becker	Michael J. Lewis, Jr.
Margaret C. Benham	Kevin A. Logan
Charles M. Brasier	Eileen F. Lynch
Philip W. Bullock	Matthew P. Mahoney
Kyle S. Cockerham	Manuel J. Martin
Gregory D. Coleman	Victor I. Mendoza
Donald F. Dean	John M. Miller
Richard D. Edson, Jr.	Terri E. Osborne
Barbara J. Everett	Michael L. Poelma
Douglas L. Garrett, Jr.	Thomas N. Potter
William G. Goodwin	Douglas C. Ratcliff
Kathryne L. Gravel	Steven C. Sisco
Marc W. Harder	Kirk L. Spencer
Patricia M. Hester	Audrea M. Sutley
Katherine C. Hubby	Michael A. Valko
Helyn G. Jacobs	Sheldon B. Watson
Thomas E. Jenkins, Jr.	David M. Wilmore
Timothy P. Jennings	Bruce L. Wright
Charles G. Johnson	

Bachelor of Arts, Fall 1983

Merritt A. Clements	Jana J. McFarland
Raymond W. Cozby III	Pamela L. Phillips
Sandra C. Kinn	

Bachelor of Science, Fall 1983

William N. Agee, Jr.	Donald F. Kirsch
Ann K. Ardis	Alfred N. McCarter
Janet L. Bader	David M. Meadows
James G. Brewton	Ralph M. Myers
Ben M. Brigham III	Summer Parrish
Sandra J. Bruce	David N. Purgason
Glenn L. Dunlap	Diane E. Robinson
W. Kent Duran	Christy Schweikhardt
Audrey A. Garvey	Michael B. Smith
Nancy C. Grace	Michael S. Stinson
Steve Griffin	Matthew O. Strickland
Paul A. Hardwick	Ray S. Thompson
Carolyn Kelly	Amy L. Wharton
Marcus M. Key	Kristina I. Witt

Bachelor of Arts, Spring 1983

Edward C. Bullock	Megan A. Martin
Phil P. Goodson	Charles A. Montero
Geoffrey P. Greenwell	Susanna R. Moses
Paula A. Ivey	Sheree L. Stewart
Pamela J. Kramer	Bryan C. Wagner
Sara A. Loyd	

Bachelor of Science, Spring 1984

William H. Aylor	Thomas S. Hatfield
David G. Becker	Beth A. Janssen
Dan P. Black, Jr.	Lynn E. Kirby
Charles D. Brown	Teresa L. Lutes
Prescott C. Christian	Mark W. Martin
Stephen P. Chung	Richard T. Otto
James O. Clarke	Laurence M. Page
Joel M. Coffman	Lois J. W. Peterson
Gary T. Donnan	Bradley J. Sanders
Keith D. Edwards	Loran A. Segsworth
Diana L. S. Eshelman	Brian A. Simon
James J. Flynn	Roger F. Smith
Charles D. Frederick	Maria-Luisa Wood
Bruce C. Gates	

GRADUATE DEGREES

We regret the omission in the 1983 *Newsletter* of graduate degrees granted in August, 1982. They are included below, followed by graduate degrees granted in 1983-84.

Master of Arts, August 1982 (6)

Bracken, Bryan R.

B.A., Geology, 1979, Colorado College
Environment of deposition and diagenesis of sandstones,
La Joya formation, Huizachal Group, northeastern
Mexico.

Supervisor: Earle F. McBride

Committee Members: Edward C. Jonas, Keith Young

Bradford, Cynthia A.

B.S., Geology, 1979, University of New Orleans
Depositional environments and diagenesis of the Jurassic
Smackover formation, Escambia County, Alabama.

Supervisor: Alan J. Scott

Committee Members: Amos Salvador, Lynton S. Land

Craig, Lisa E.

B.A., Geology, 1976, Earlham College
Silicification and porosity development in Lower Ordovi-
cian Knox Group carbonates, Burkesville, Kentucky.

Supervisor: J. Richard Kyle

Committee Members: Robert L. Folk, Lynton S. Land

Hoel, Holly D.

B.A., Geology, 1977, Dartmouth College
 Goliad Formation of the South Texas Gulf coastal plain:
 Regional genetic stratigraphy and uranium mineralization.
 Supervisor: William E. Galloway
 Committee Members: Alan J. Scott, J. Richard Kyle

Lehman, Thomas M.

B.S., Geology, 1978, University of New Mexico
 A ceratopsian bone bed from the Aguja Formation
 (Upper Cretaceous) Big Bend National Park, Texas.
 Supervisor: Wann Langston, Jr.
 Committee Members: E. L. Lundelius, Jr., Gary A. Kocurek

Macpherson, Gwendolyn L.

B.S., Geology, 1975, Syracuse University
 Low-temperature geothermal ground water in the Hos-
 ston/Cotton Valley Hydrogeologic Unit, Falls County
 area, Texas.
 Supervisor: Lynton S. Land
 Committee Members: Charles Kreidler, Charles Wood-
 ruff

Doctor of Philosophy, August 1982 (3)**Lewis, Ronald D.**

B.S., General Science, 1968, University of Iowa
 M.S., Geology, 1974, University of Iowa
 Depositional environments and paleoecology of the Oil
 Creek Formation (Middle Ordovician), Arbuckle Moun-
 tains and Criner Hills, Oklahoma
 Supervisor: James Sprinkle
 Committee Members: Judith Land, E. L. Lundelius, Jr.,
 Ronald Parsley, Alan J. Scott

Padilla y Sanchez, Ricardo J.

B.S., Geology, 1973, Universidad Nacional Autonoma de
 Mexico.
 Geologic evolution of the Sierra Madre Oriental between
 Linares, Concepcion del Oro, Saltillo, and Monterrey,
 Mexico.
 Supervisor: William R. Muehlberger
 Committee Members: J. C. Guerrero-G, John C. Max-
 well, Amos Salvador, Keith Young

Wiggins, William D. III

B.S., Geology, 1974, Tulane University;
 M.S., geology, 1978, Tulane University
 Depositional history and microspar development in
 reducing pore water
 Marble Falls Limestone (Pennsylvanian) and Barnett
 Shale, (Mississippian).
 Supervisor: Robert L. Folk
 Committee Members: Don G. Bebout, Judith Land,
 Lynton S. Land

Master of Arts, August 1983 (9)**Ambrose, William A.**

B.S., Geology, 1979, The University of Texas at Austin
 Aggraded Fluvial and Tide-Dominated Deltaic Deposits
 of the Spoon Formation (Pennsylvanian) in the South-
 ern Illinois Basin; a Shallow Embayment.
 Supervisor: Alan J. Scott
 Committee Members: Amos Salvador, Thor A. Hansen

Chang, Jui-Yuan

B.S., Physics, 1977, National Taiwan University
 Emergent Angle Dependent Deconvolution
 Supervisor: Milo M. Backus
 Committee Members: Clark R. Wilson, H. W. Smith

Clark, John T.

B.A., Geology, 1980, Hamilton College
 Geology of the Bartlett Springs Trend, Northern Coast
 Ranges, California.
 Supervisor: John C. Maxwell
 Committee Members: Mark P. Cloos, William R.
 Muehlberger

Davies, Kyle L.

A.B., Geology, 1979, University of California, Berkeley
 Hadrosaurian Dinosaurs of Big Bend National Park,
 Brewster County, Texas.
 Supervisor: Wann Langston, Jr.
 Committee Members: E. L. Lundelius, Jr., Gary A. Ko-
 curek

Eschner, Terence B.

B.S., Geology, 1979, San Diego State University
 Marine Destruction of Eolian Sand Seas: An Example in
 the Jurassic Entrada and Curtis Formations, North-
 eastern Utah.
 Supervisor: Gary A. Kocurek
 Committee Members: Alan J. Scott, Earle F. McBride

Houston, Betty G.

B.S., Geology, 1979, The University of Texas at Austin
 Proterozoic Uncompahgre Formation: Remnant of a
 Precambrian Fold and Thrust Belt.
 Supervisor: Sharon Mosher
 Committee Members: William R. Muehlberger, Gary A.
 Kocurek

Leason, Jonathan O.

B.A., Geology, 1981, University of Pennsylvania
 Structural Geology of the Horse Mountain Area, Mara-
 thon Basin, Texas.
 Supervisor: William R. Muehlberger
 Committee Members: Sharon Mosher, Earle F. Mc-
 Bride

Logan, William S.

B.A., Geology, 1978, Earlham College
Geology of the Agalteca Magnetite Skarn Deposit,
Central Honduras.

Supervisor: J. Richard Kyle

Committee Members: William D. Carlson, William R.
Muehlberger

Pollman Keith S.

B.S., Geology, 1979, University of Delaware
Brittle-Ductile Deformation of Feldspar in the Garlock
Fault Zone, Quail Mountains, California.

Supervisor: Sharon Mosher

Committee Members: William R. Muehlberger, William
D. Carlson

Doctor of Philosophy, August 1983 (3)**Castagna, John P.**

B.S., Geology, 1976, Brooklyn College
M.A., Geology, 1978, Brooklyn College
Methods for the Analysis of Sonic Log Waveforms.

Supervisor: Milo M. Backus

Committee Members: Wayne D. Pennington, Clark R.
Wilson, Francis Bostick, Jr.

Duex, Timothy W.

B.S., Geology, 1967, University of Wisconsin-Oshkosh
M.A., Geology, 1970, Rice University
Geology, Geochemistry, and Geochronology of Volcanic
Rocks between Cuauhtemoc and La Junta, Central
Chihuahua, Mexico.

Supervisor: Fred W. McDowell

Committee Members: Leon E. Long, Daniel S. Barker,
Stephen E. Clabaugh

Morton, John P.

B.A., Geology, 1972, Oberlin College
M.A., Geology, 1977, The University of Texas at Austin
Rb-Sr Dating of Clay Diagenesis

Supervisor: Leon E. Long

Committee Members: William E. Galloway, Lynton S.
Land, Robert Morton

Master of Arts, December 1983 (11)**Angstadt, David M.**

B.S., Geology, 1980, Youngstown State University
Late Cretaceous-Recent Seismic Stratigraphy and Geo-
logic History of the Southeastern Gulf of Mexico/
Southwestern Straits of Florida.

Supervisor: Richard T. Buffer

Committee Members: Milo M. Backus, James Austin

Carr, David L.

B.S., Geology, 1980, Colorado State University
Late Paleozoic Siliciclastic Shelf-Bars, Sacramento Moun-
tains, New Mexico.

Supervisor: Alan J. Scott

Committee Members: Mark P. Cloos, Noel Tyler

Emmet, Peter A.

B.S., Geology, 1978, The University of California at
Davis

Geology of the Agalteca Quadrangle, Honduras, Central
America.

Supervisor: William R. Muehlberger

Committee Members: Fred W. McDowell, J. Richard
Kyle

McGraw, Maryann M.

B.A., Geology, 1974, The University of Texas at Austin
Carbonate Facies and Diagenesis of the Upper Smackov-
er Formation (Jurassic), Paup-Spur-Mandeville Fields,
Miller County, Arkansas.

Supervisor: Robert L. Folk

Committee Members: Ralph O. Kehle, R. P. Sorenson

Patterson, Joseph E.

B.A., Geology, 1981, Rice University
Exploration Potential and Variations in Shelf Plume
Sandstones, Navarro Group (Maestrichtian), East Cen-
tral Texas.

Supervisor: Alan J. Scott

Committee Members: William E. Galloway, Thor A.
Hansen

Richter, Bernd C.

B.A., Geology, 1979, University of Karlsruhe
Geochemical and Hydrogeological Characteristics of Salt
Spring and Shallow Subsurface Brines in the Rolling
Plains of Texas and Southwest Oklahoma

Supervisor: Charles W. Kreidler

Committee Members: Lynton S. Land, John Sharp

Speer, Stephen W.

B.S., Geology, 1981, New Mexico State University
ABO Formation (Early Permian) Sacramento Mountains,
New Mexico: A Dry Alluvial Fan and Associated
Basin-Fill.

Supervisor: Alan J. Scott

Committee Members: Gary Kocurek, Robert Finley

Stimac, James A.

B.S., Geology, 1979, The University of Michigan at Ann
Arbor

Volcanic Rocks and Ore Deposits of the Cusihaarachic-
Cuauhtemoc Area, Chihuahua, Mexico.

Supervisor: Fred W. McDowell

Committee Members: J. Richard Kyle, Douglas Smith

Sullivan, Joseph E.

B.A., Geology, 1978, Knox College

Geomorphic Effectiveness of a High-Magnitude Rare
Flood in Central Texas.

Supervisor: Victor R. Baker

Committee Members: Robert L. Folk, Thomas Gustav-
son

Van Der Ven, Paulus H.

B.S., Geology, 1977, Universidad Federal do Para (Brazil)

Seismic Stratigraphy and Depositional Systems of Northeastern Santos Basin, Offshore Southeastern Brazil.

Supervisor: Leonard F. Brown, Jr.

Committee Members: William L. Fisher, Richard T. Buffler

Wark, David A.

B.S., Geology, 1978, The University of Michigan at Ann Arbor

Geology of the Mid-Tertiary Volcanic Terrane at Buenos Aires, Chihuahua, Mexico.

Supervisor: Fred W. McDowell

Committee Members: Daniel S. Barker, Douglas Smith

Doctor of Philosophy, December 1983 (4)**Boyles, J. Michael**

B.S., Geological Engineering, 1974, Colorado School of Mines

Depositional History and Sedimentology of Upper Cretaceous Mancos Shale and Lower Mesaverde Group, Northwestern Colorado: Migrating Shelf-Bar and Wave-Dominated Shoreline Deposits.

Supervisor: Alan J. Scott

Committee Members: Myron Dorfman, Gary A. Kocurek, Joseph McGowen, William R. Muehlberger

Fagin, Stuart W.

B.S., Geology, 1973, Brooklyn College

M.S., Geology, 1977, George Washington University
Paleogeography and Tectonics of the Redding Section
Eastern Klamath Belt, Northern California.

Supervisor: John C. Maxwell

Committee: Milo M. Backus, Wulf Gose, William R. Muehlberger, Wayne D. Pennington

Kastning, Ernst H.

B.S., Electrical Engineering, 1966, Rensselaer Polytechnic Institute

M.S., Geology, 1975, The University of Connecticut
Geomorphology and Hydrogeology of the Edwards Plateau Karst, Central Texas.

Supervisor: Victor R. Baker

Committee Members: Robert L. Folk, Keith Young, Robert Holz, Arthur Palmer

Moustafa, Adel R.

B.S., Geology, 1973, Ain Shams University (Egypt)

M.S., Geology, 1978, Ain Shams University (Egypt)

Analysis of Laramide and Younger Deformation of a Segment of the Big Bend Region, Texas.

Supervisor: William R. Muehlberger

Committee Members: Daniel S. Barker, Robert Holz, John C. Maxwell, Bill St. John

Master of Arts, May 1984 (25)**Agra, Jefferson de Mello**

Geologist, Geology, 1980, Universidade Federal do Bahia

Depositional and Diagenetic Aspects of the Namorado Sandstone, Namorado Field, Campos Basin, Brazil.

Supervisor: William L. Fisher

Committee Members: Robert L. Folk, Ben Caudle

Barrie, Charles P.

B.S., Geology, 1979, University of Michigan/Ann Arbor
Geology of the Khayyam and Stumble-On, Prince of Wales Island, Alaska.

Supervisor: J. Richard Kyle

Committee Members: John C. Maxwell, William D. Carlson

Berryhill, Alan W.

B.S., Geology, 1981, University of Texas at Austin

Structural Analysis of Progressive Deformation within a Complex Strike-Slip Fault System: Southern Narragansett Basin, Rhode Island.

Supervisor: Sharon Mosher

Committee Members: William R. Muehlberger, William D. Carlson

Bowland, Christopher L.

B.A., Geology, 1981, Northwestern University

Seismic Stratigraphy and Structure of the Western Colombian Basin, Caribbean Sea.

Supervisor: Richard T. Buffler

Committee Members: Wayne D. Pennington, Eric Rosencrantz

Bramson, Emil

B.S., Geology, 1979, University of Rochester

Trace-Element Study of Tertiary Volcanic Rocks from the Sierra Madre Occidental, Mexico to Trans-Pecos Texas.

Supervisor: Fred W. McDowell

Committee Members: Daniel S. Barker, Christopher Henry

Caran, Samuel C.

B.S., Geological Sciences, 1977, University of Texas at Austin

Environmental Geology of Abandoned Lignitic-Bituminous-Coal Mines of Texas.

Supervisor: Keith Young

Committee Members: Charles Woodruff, Robert Holz

Carlson, Steven M.

B.S., Geology, 1981, Iowa State University

Investigations of Recent and Historical Seismicity in East Texas.

Supervisor: Wayne D. Pennington

Committee Members: Mark P. Cloos, Charles Kreitler

Farrand, Richard B.

B.A., Geology, 1979, University of Montana
Cretaceous Macrofossil Assemblages of the Corsicana Formation with Implications on the Cretaceous-Tertiary Boundary in East-Central Texas.

Supervisor: Thor A. Hansen

Committee Members: James Sprinkle, Keith Young

Graber, Ellen R.

A.B., History, 1981, Cornell University
Diagenesis of Eocene Gulf Coast Carbonates: Paradoxes in the Feculent Weches.

Supervisor: Robert L. Folk

Committee Members: Lynton S. Land, Thor A. Hansen

Greene, Jeremy T.

B.S., Geophys. Eng., 1981, Colorado School of Mines
Reflection Enhancement by Bubble Pulse and Scattered Noise Attenuation in the North Atlantic Transect Multichannel Seismic Data Set, Nares Basin.

Supervisor: Clark R. Wilson

Committee Members: Milo M. Backus, Joe Phillips

Hardwick, James F.

B.A., Geology, 1978, University of Colorado/Boulder
Epithermal Vein and Carbonate Replacement Mineralization Related to Caldera Development, Cunningham Gulch, Silverton, Colorado.

Supervisor: J. Richard Kyle

Committee Members: William R. Muehlberger, Fred W. McDowell

Lin, Tung-Hung T.

M.S., Geology, 1981, University of Georgia
Seismic Stratigraphy and Structure of the Sigsbee Salt Basin, South-Central Gulf of Mexico

Supervisor: Richard T. Buffler

Committee Members: Clark R. Wilson, Amos Salvador

McDermott, Robert W.

B.A., Geology, 1977, University of Colorado
Depositional Processes and Environments of the Permian Sandstone Tongue of the Cherry Canyon Formation and the Upper San Andres Formation, Last Chance Canyon, New Mexico.

Supervisor: Alan J. Scott

Committee Members: Earle F. McBride, Joseph H. McGowen

McLaren, James P.

B.A., Geology, 1974, Rice University
Model Calculations of Regional Network Locations of the Subduction Zone Earthquakes.

Supervisor: Wayne D. Pennington

Committee Members: Mark P. Cloos, Clifford Frohlich

McMahon, Peter B.

B.S., Geology, 1981, University of Missouri/Columbia
Computer Simulation of Mass Transport in Groundwater: Effect of Macroscopic Heterogeneities in Hydraulic Conductivity.

Supervisor: John M. Sharp

Committee Members: Charles Kreitler, Randall Charbeneau

Nelson, Katherine H.

B.S., Geology, 1981, State University of New York/Stony Brook

Estuarine and Anastomosing Fluvial Systems of the Lower Mesaverde Group, Northwestern Colorado.

Supervisor: Alan J. Scott

Committee Members: Mark P. Cloos, Gary A. Kocurek

Noe, David C.

B.A., Geology, 1979, University of Northern Colorado
Variations in Shoreline Sandstones from a Late Cretaceous Interdeltaic Embayment, Sego Sandstone (Campanian), Northwestern Colorado.

Supervisor: Alan J. Scott

Committee Members: Mark P. Cloos, Gary A. Kocurek

Onstott, Gregory E.

B.S., Civil Engineering, 1978, Vanderbilt University
Processing and Display of Offset Dependent Reflectivity in Seismograms.

Supervisor: Clark R. Wilson

Committee Members: Milo M. Backus, Joe Phillips

Sagasta, Paul F.

B.A., Geology, 1978, Buffalo State College
Seismic Investigations of Shallow-Subsurface Carbonates in the Bahama Islands.

Supervisor: Clark R. Wilson

Committee Members: Milo M. Backus, Lynton S. Land

Self, Daniel E.

B.S., Geol. Sciences, 1979, Old Dominion University
Holocene Carbonate Reef-Flat and Beachrock Cementation, Enewetak Atoll, Marshall Islands.

Supervisor: Lynton S. Land

Committee Members: Robert L. Folk, Thor A. Hansen

Soar, Linda K.

B.S., Geology, 1980, Colorado State University
Paleoecology of Phylloid Algal Mud Mounds, Honaker Trail Formation (Pennsylvanian), Southwest Colorado.

Supervisor: Thor A. Hansen

Committee Members: Alan J. Scott, Samuel P. Ellison, Jr.

Stancliffe, Richard J.

B.S., Geology, 1980, Brigham Young University
Vertically Stacked Barrier Island Systems, Sego Sandstone (Campanian), Northwest Colorado.

Supervisor: Alan J. Scott

Committee Members: Amos Salvador, Robert Finley

Thurwachter, Jeffrey E.

B.S., Geology, 1977, Northern Illinois University
Sedimentology of Neogene Basin—Fill Deposits, Lower
Tornillo Creek Area, Big Bend National Park, Texas
Supervisor: Joseph H. McGowen
Committee Members: Robert L. Folk, Daniel S. Barker

Tiezzi, Pamela A.

B.A., Geology, 1981, Colgate
Petrography and Diagenesis of the Mississippian Lodge-
pole Formation, South-Central Montana.
Supervisor: Robert L. Folk
Committee Members: Alan J. Scott, Lynton S. Land

Ulrich, Suzanne D.

B.A., Geology, 1981, Miami University
Formation of a Platinum-Rich Beach Placer Deposit,
Goodnews Bay, Alaska.
Supervisor: Earle F. McBride/J. Robert Moore
Committee Member: Daniel Barker

RESEARCH ASSISTANTS

1983–84

Scott H. Adamek
Barbara R. Barron
Paul E. Blanchard
Rachel J. Burks
Rosemary C. Capo
Sean Conlon
Susan L. Cook
Scott D. Davis
Christopher J. Finn
Emilio Flores
Alfredo I. Garcia
Ellen R. Graber
Robert Gutierrez
Susan F. Harris
Susan Ide
Timothy J. Jackson
Kirt A. Kempter

John I. LaFave
David E. Leary
Paul Lundegard
Lawrence E. Mack
Kitty L. Milliken
Adel Moustafa
Gregory Onstott
Victoria J. Pursell
Calixto Ramirez
Stephen W. Robertson
Tracy J. Stark
James A. Stimac
Peter R. Tauvers
Keith L. Thompson
Charles P. Todd
James H. Wittke

TEACHING ASSISTANTS

1983–84

Vicki L. Allen
Arten J. Avakian
Abhaya Badachhane
Nancy J. Banta
Charles P. Barrie
Barbara R. Barron
Gray E. Bebout
Alan W. Berryhill
Steven M. Carlson
Karen E. Carter
Edward C. Cazier
Katherine L. Coley
Reinold R. Cornelius
Rene V. Curtis
Suzanne Danner
Pamela L. Denney
Timothy N. Diggs
Ranaye B. Dreier
Mary Anne Duncan
Trevor A. Dumitru
Michael J. Faust
Sterling H. Fly
Paul B. Gold
Ellen R. Graber
Patricia L. Granger
Roberto Gutierrez
Karen G. Havholm
Susan F. Harris
Karen L. Herrington
Kirt A. Kempter
Jennifer L. Kraft
John I. LaFave

Gwendolyn L. Macpherson
Leslie E. Mashburn
Megan M. McCrary
Kitty L. Milliken
J. Todd Mitchell
Don E. Miser
Robert H. Nelson
Victoria J. Pursell
Susan M. Rensing
Stephen W. Robertson
Robert S. Rosenberg
David B. Rosenthal
Jeffrey N. Rubin
Martin P. Sander
Peter L. Savinelli
Joel D. Schneyer
Brian A. Smith
Linda K. Soar
Mark A. Suneson
Audrea M. Sutley
Mark R. Ulrich
Victor V. VanBeuren
Kenneth D. Vogel
Anne H. Walton
Samuel K. Webb
James W. Westgate
Clayton H. Wilson
Susan N. Witebsky
Henry K. Wong
John G. Worrall
Eric L. Yollick

STUDENT AWARDS

Best Paper Award of Student Division, South-Central Section, GSA: Pamela D. Nielson, an MA candidate at UT in geology, received the third place award at the regional Geological Society of American conference in Dallas. Her paper, entitled "Regional Hydrology of the Salt Basin Graben" involved flow system delineation in an arid basin of Transpecos Texas and the influence of down-faulted karstic limestone zones on this flow system. This award was given on the basis of the paper's scientific content and the quality of presentation.

Best Student Speakers in GEO 193, Technical Sessions: Awards are given each year for the best presentation of thesis or dissertation results in the format of a technical meeting. Professor DeFord is in charge of the seminar, but a student panel chooses the awards. The winner's name is inscribed on a plaque that is displayed in the Geology Building. Winners since the last report are: Spring semester 1983—Stephen W. Speer: "Evolution of a Fluvial Clastic Wedge, Abo Formation (Wolfcampian), Sacramento Mountains, New Mexico." Co-runners up for Spring semester 1983—Ranaye Dreier: "The Blackstone Series: Evidence for Avalonian Tectonics in North Rhode Island," James Stimac: "Volcanic Rocks and Mineralization of the Cusi-Cuauhtemoc Area, Chihuahua, Mexico." Fall semester 1983—Paul D. Lundegard: "Problem of Secondary Porosity: Frio Fm (Oligocene), Texas Gulf Coast." Runner up for Fall semester 1983—Ralph Kugler: "Petrology and Porosity Patterns of Pre-Columbian Psammites and Pelites from Proximal Patagonia."

The Department of Geological Sciences—

LOOKING TO THE FUTURE

William L. Fisher and Jack Sharp

The Department has substantial history. It has produced thousands of graduates over the years who have moved to all parts of the world; many have excelled in business and the geological sciences. Today the Department exists with a strong, well oriented student body, both undergraduate and graduate. We have a balanced, vital faculty, many of whom hold high distinction as teachers and scholars. We have and enjoy the counsel and substantial support of our Geology Foundation Advisory Council, Exes and friends.

As we look to the future it is worth taking stock of our standing relative to other major departments of geological sciences. How do we rank and how are we perceived? Obviously there is no way, and probably no necessity, to measure standing in an absolute manner, but a recent survey of the degree-awarding departments of the U.S. gives us some relative guides. We stand in the top ten in size of faculty; in size of undergraduate, masters level, and doctorate level student bodies; in size and importance of our library; and in number of graduate students supported. With about half of the faculty in named endowed positions, and with total endowments of \$8.5 million, we rank at or near the top.

In other more subjectively defined areas our ranking is somewhat lower, although in most still substantial. As judged, the effectiveness of our overall graduate program is ranked twelfth in the U.S. (tied with four others); the scholarly quality of our graduate program in geological sciences is ranked thirteenth (tied with one other). Although research efforts, measured by total volume of publications ranks fourteenth (tied with three others), the judged significance is ranked twentieth (tied with seven others) and in the number of publications per faculty we rank fifty-third.

Although not evaluated in the survey, we would rank at or near the top in number of graduates taking professional positions in industry; by contrast, 28 departments send more graduates to teaching positions at degree-awarding departments than we do. We rank high in total research expenditures, but low in number of external research grants from national funding institutions.

To be sure these rankings are subject to differences in data reporting and to inherent biases of the evaluators. But they do show that we are a large, well supported department with substantial, but improvable standing. And with the vigorous support of our Geology Foundation Advisory

Council, our Exes and friends, and the University Administration, along with the balance and caliber of our current faculty and student body, we have the base and ability to improve, perhaps more so than any other Department of Geological Sciences in the Nation. Our challenge is to realize our existing opportunities and potential to the maximum extent possible. This challenge we intend to meet. As a part of that effort the faculty this year established and adopted four basic objectives and goals for the future:

1. An undergraduate program producing graduates from a real four-year program (or a revised and *stated* five-year program), with the vast majority of B.S. graduates in a position to pursue professional careers, or gain admittance to the finest graduate programs, with UT as a viable option. A broad clearly nonprofessional B.A. program and adequate service and exposure courses should be maintained.
2. An M.A. program *universally recognized* as the top M.A. program in the *applied earth sciences* in the world, with a two- or two-and-one-half year normal residency.
3. A Ph.D. program *universally recognized* as one of the best in the world in earth sciences, and as the *very best* in several major areas in the earth sciences. The applicant pool should include a majority of the top Ph.D aspirant earth sciences graduate applicants in the world each year. Graduates should be highly sought after by research laboratories, and by academic departments.
4. The Department and closely associated research groups should be *universally recognized* as one of the leading research groups in the earth sciences in the world, and the unquestioned leaders in several major areas. Its research contributions should be in both the *applied* and *basic earth sciences*.

Related objectives include:

- a. Increase research productivity (publications and research grants).
- b. Increase the Ph.D.-level research, but not at expense of the quality of our masters program.
- c. Maintain strength in fields of known prominence.
- d. Grow in research directions that are both scientifically important and in which there will be a demand for our products (ideas and students).

- e. Increase cooperation with UT Institute for Geophysics and Bureau of Economic Geology on research projects.

While these objectives are general they do reflect the faculty's perception of its strengths and areas it needs to improve and enlarge. We want to attract the best and most dedicated students and to maintain and recruit the best established and new faculty members vital in teaching and research. Such is the only prescription for quality and excellence.

The tools of our profession change; information and the capability to process and transfer it increases, technology expands, and instrumentation becomes more precise. We must train our students to use the best available tools. But the prescriptions for knowledge and, ultimately, wisdom, do not change; this involves learning and instilling the desire to learn and think and the necessity to continue to do so.

If, in our quest for improved quality and excellence, we maintain the basics and perceive and lead the fundamental trends in geology, we will provide the best training for future professionals to meet the exciting demands of the geological sciences.

BUREAU OF ECONOMIC GEOLOGY

The Bureau of Economic Geology will mark its 75th anniversary by moving to the new research center being erected at Balcones Research Center. Although the move will mean physical separation from the Department of Geological Sciences and the Institute for Geophysics, the long-standing communication and cooperation among the geological science entities at The University of Texas at Austin will not diminish. The Bureau conducts a wide variety of geological research, directed chiefly at Texas geology. It operates on an annual budget of about \$6.2 million, with a professional research staff of 65, augmented by a support staff of 80, and 35 part-time graduate research assistants.

A notable highlight of the year was publication of *Atlas of Major Texas Oil Reservoirs*, issued as a UT Centennial publication and constituting the Bureau's contribution to the University's Centennial Celebration. The first edition of 3,000 copies issued in February, 1984 was rapidly exhausted, and a second printing has been completed.

Full details of Bureau research programs and staff activities are reported in the Bureau's *Annual Report*, available upon request. A complete List of Bureau Publications is also available on request.

INSTITUTE FOR GEOPHYSICS

The Institute for Geophysics' research staff has continued to grow during the past year, and we are pleased to announce the addition of the following five scientists: **Paul Stoffa** and **Charles Windisch** joined us from Gulf Oil Research and Development Company. Stoffa's interests are in marine geophysics, particularly multichannel reflection and refraction seismology. Windisch holds the newly created position of technical coordinator, and is responsible for overseeing various aspects of marine geophysical data acquisition and processing. He will also coordinate the Institute's effort to build a new research vessel. **Jan Garmany** came to the Institute from the University of Washington. He specializes in studies of marine refraction seismology. **Christopher R. Scotese** was formerly with the University of Chicago. While at the Institute, he plans to continue his studies of the plate tectonic evolution of the Earth, with the goal of producing an atlas of paleoceanographic maps. **Kevin MacKenzie**, a recent graduate of Scripps Institution of Oceanography, is the most recent addition to the staff. MacKenzie's primary research interest is oceanic crustal structure, which he investigates using seismic refraction data from Ocean Bottom Seismometers.

There are currently 38 students working with staff scientists on their graduate research. This reflects a significant increase from the 26 students that were similarly involved last year. During the Spring semester, **John Sclater** taught an "Advanced Seminar on Geophysics." The topics covered during the seminar were the North Sea and Extensional Tectonics. Each Friday meeting, held at the Institute's off-campus office and laboratory building, involved two presentations, one by a student and the other by an outside speaker. The course will be offered again next year, although the topic of concentration has yet to be chosen.

The Institute is involved in several cooperative research organizations that were formed or reorganized this year. Institute Director **Arthur Maxwell** was appointed to the board of directors of the newly formed non-profit group, "Incorporated Research Institutions for Seismology" (IRIS). The group's goal is to further successful management of large international seismic programs. By having input into the design of instrumentation and the locations used by global digital seismic networks, the member institutions hope to have a positive effect on the type and quality of data available for use in research projects like the Continental Lithosphere Project.

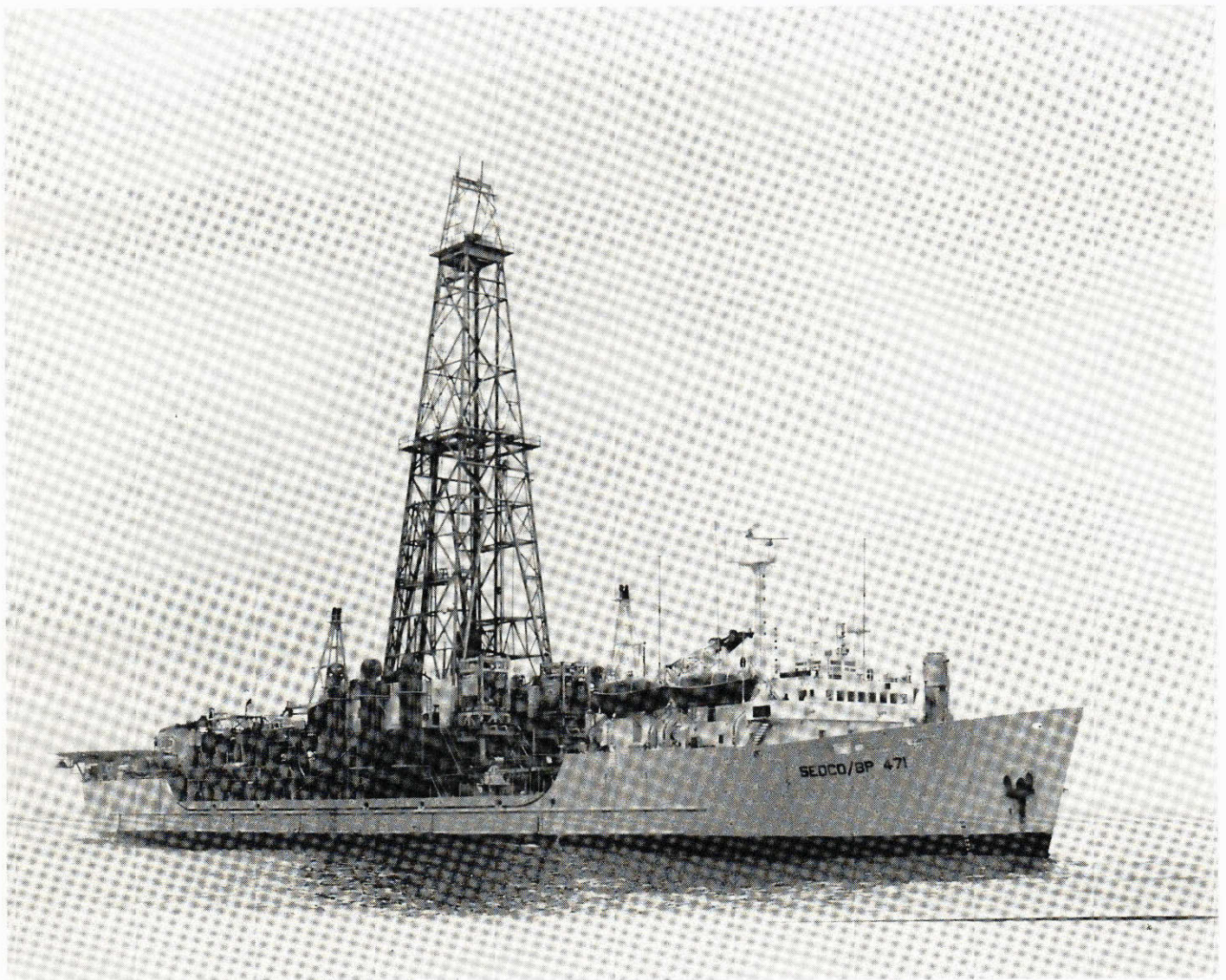
An agreement between the University of Texas and Texas A&M University concerning cooperative use of marine facilities in Galveston was developed last summer. The agreement has allowed shared utilization of ship

service personnel and shore facilities, and established a joint ship scheduling committee. Space in Maurice Ewing Hall is being converted to dormitories to be used by Austin and College Station based personnel who need temporary housing when working in Galveston preparing for cruises.

Institute staff members have been active in helping to plan the new Ocean Drilling Program—the successor to the Deep Sea Drilling Project. The program is an international partnership of scientists and governments who have joined together in order to explore the structure and history of the earth beneath the ocean basins. The operation of the drillship will be managed from an ODP facility at Texas A&M, which will also serve as one of the repositories for cores. A SEDCO drill ship is currently being modified to meet the specifications of the program. The Institute's

RV FRED H. MOORE recently returned from a 24-day site survey cruise to the Straits of Florida, Exuma Sound, and north margin of Little Bahama Bank. This site survey was undertaken to help plan and implement the Ocean Drilling Program's first drilling leg. Institute researcher **James Austin** was recently named co-chief scientist for the leg, an honor he shares with Wolfgang Selager of the Department of Geology at the University of Miami. Drilling leg 101 will depart from Galveston in January 1985.

The Institute for Geophysics has recently become involved in an international task force of scientists consulting with Italian scientists concerning prediction and assessment of the volcanic hazard at Pozzuoli, Italy, which is about 10 km west of Naples. The city is located within the



The ship being converted for use in the Ocean Drilling Program is the SEDCO/BP 471, which is 470 feet long and 70 feet wide and has a displacement of 16,596 long tons. The derrick towers 200 feet above the water line. A computer-controlled dynamic positioning system can be used in water depth as great as 27,000 feet. The ship, which was built in Halifax, Nova Scotia in 1978, is among the top worldwide dynamically positioned drillships due to its rating of drilling depth capabilities. The rig will be converted to have a 30,000 foot drill string and will be able to use a riser system for drilling in 6,000 feet of water. It has a crew of 52 members and can accommodate a science party of up to 50 members. Approximately 12,000 square feet of shipboard space will be equipped with science laboratories.

Phlegraen Field volcanic region and has been experiencing increasing earthquake activity and tectonic uplift since 1970. In the last six months the city has experienced a meter of uplift! The Institute was represented at the Pozzuoli Volcanic Crisis Workshop by **Joseph Phillips**. Upon his return, he and others at the Institute have developed a research proposal to help study the area's hazardous situation.

In February, the Institute hosted a meeting of the Central and Eastern Pacific Regional Panel of JOIDES (Joint Oceanographic Institutions for Deep Earth Sampling). **Thomas Shipley** is chairman of this regional panel which met to develop short and long term drilling objectives for the Ocean Drilling Program.

CRISIS IN INSTRUMENTATION

The stereotype of the geologist, equipped only with handlens and rock hammer, extracting all the information possible from a rock by simple observation is, of course merely a stereotype. The use of instruments once considered to be esoteric, like the electron microprobe, is now commonplace. Our students and faculty view such instruments as the normal way to expand and quantify their other observations, not as specialized tools available only to a select few. At the University of Texas we have always maintained a very open policy regarding the use of analytical instrumentation. We have always encouraged all students and faculty to utilize the available instruments to the fullest. We hope to be able to continue this liberal policy.

In the last few years it has become apparent that we face a crisis in instrumentation. Only last year the average age of our ten major instruments (4 x-ray machines, an atomic absorption spectrophotometer, a scanning electron microscope, 3 mass spectrometers and an electron microprobe) was 17 years! The oldest instrument was purchased in 1955. Advances in the stability of electronics, not to mention the revolution in computer control of data acquisition have made virtually all of our instruments obsolete. They are literally like 1967 television sets, black-and-white monsters that emit great quantities of heat and are forever in need of new tubes—remember? None of us have retained such television sets, because compact, stable, high resolution, remote control and energy efficient sets have become available. Yet our students learn on similarly obsolescent instruments, and our faculty depend on them for their research.

In the last year we have made measurable progress in rectifying this embarrassing condition. Funds totaling ap-

proximately \$200,000 from the College of Natural Sciences have enabled two instruments to be replaced at a total cost of \$500,000. A microprocessor-controlled X-ray diffractometer was installed in March, retiring our 29 year-old XRD-3 (which many alumni may remember). Our oldest X-ray machine (the XRD-5) is now only 25 years old! Most of the funds for the new X-ray machine were obtained from 7 industrial contributors. Our second acquisition is a new, fully automated electron probe microanalyzer, scheduled for installation approximately Sept. 1. Funds were obtained from the University, the National Science Foundation (\$150,000) and a generous donation of \$60,000 from the Geology Foundation. At last we will be able to see what we are analyzing with a decent microscope (including transmitted and polarized light!), in addition to being able to image the sample using back-scattered or secondary electrons. We hope to find a home for the old ARL, but like a fondly remembered horse, it's time she was put out to pasture.

These two new acquisitions decrease the average age of our ten major instruments to 12 years (the average purchase date is now 1972)! Obviously we have a long way to go. Our equipment committee identified seven goals for the near future, and these are listed below. Because of our expansion into the fifth floor of the Geology Building, some of the instruments will be installed in new laboratories.

- 1) Inductively coupled plasma spectrometer for simultaneous multi-element analysis of liquid samples (\$130,000)
- 2) Upgrading the electronic repair facilities to permit maintenance of the more sophisticated instrumentation (\$26,000)
- 3) Mineral separation facilities to permit more efficient and precise mineral isolation (\$20,000)
- 4) Automated, multi-sample thermal ionization mass spectrometer for Rb, Sr, Nd and Pb isotopic analysis, replacing our 23 year-old instrument (\$300,000)
- 5) Instrumentation of the economic geology laboratory, including a quantitative reflected light microscope and improved fluid inclusion facilities (\$85,000)
- 6) High pressure/temperature experimental apparatus to simulate subsurface conditions (\$130,000)
- 7) Acquisition of remote recording seismic stations for investigation of natural and induced seismic events (\$300,000)

Once these goals are reached we will need to chip away at our remaining museum pieces. Our work is obviously cut out for us! If we add new faculty in organic geochemistry or mineralogy, for example, a whole new list of needs, such as another gas-source mass spectrometer, a gas chromatograph-mass spectrometer and a transmission electron microscope, will surface. We accept these challenges, and with the help of the alumni sympathetic to the needs of modern geologic research and teaching, will try our best to keep ourselves and our students at the fore-front of our science. But we're not abandoning our hammers and handlenses!

FOUR YEARS WITH THE COLLEGE

I appreciate Bill Fisher's invitation to highlight activities of the College as they relate to the Department of Geological Sciences. Our College, organized from the College of Arts and Sciences in 1971, consists of twelve departments grouped into five general categories—Earth Sciences (Geological Sciences, Marine Studies), Home Economics (a single department), Life Sciences (Biological Sciences, Botany, Microbiology, Zoology), Mathematical Sciences (Computer Sciences, Mathematics), and Physical Sciences (Astronomy, Chemistry, Physics). These programs are served by 478 full-time faculty and a support staff of 104.

Although many aspects of each discipline are unique, the common needs within the sciences are oftentimes addressed most effectively in a cooperative effort. I site one example. Two years ago the department chairmen in the College recognized the need for major upgrading of teaching and related research equipment as critical to our mandate for excellence. A team of scientists representing the various disciplines prepared a report that articulated these needs, the costs over a five-year period, and the impact this new equipment will have on productivity in the College. As a consequence of that report, we have received a major increase in the College equipment budget which has been put to good use.

This past year the Dean's Office was able to provide matching funds for each new equipment proposal submitted to a funding agency. (Most federal agencies such as the National Science Foundation and the Department of Energy expect universities to match the equipment grants which they provide.) Geological Sciences shared in this project and received matching funds of over \$200,000 toward the purchase of an electron microprobe analyzer. For the coming year, a matching grant (\$140,000) has been approved for a thermal ionization mass spectrometer in the Department. I anticipate that the matching program will continue for the next several years, so that the necessary upgrade in equipment throughout the College can take place.

Geological Sciences has long-standing recognition among oil and related service companies for its interview and placement program. A few years ago students from other departments had little opportunity for being interviewed in the College by potential employers. An important service to these students is the Industry Liaison Program now in place in the Dean's Office. Organization of this facility was especially timely for Computer Sciences, which has enjoyed a burgeoning enrollment and a strong demand among employers. Of the 80 companies that visited this past

academic year, 60 came to interview students in Computer Sciences. Modeled after the Geological Sciences recruitment program, all interviews take place within the respective departments and faculty from that discipline host each interviewer's visit. Incidentally, one might speculate whether the demand for Computer Sciences majors will become cyclical as it has for students in the Geological Sciences. I bet that it will.

Rapid progress has been made in the College of Natural Sciences Foundation since their Advisory Council had its organizational meeting during the Fall Semester of 1980. Unlike Geological Sciences, most other departments in the College had no endowments, no organized alumni program, and no ongoing communication with former graduates. The most difficult problem has been to identify the alumni by discipline (records merely reflect pre-1970 graduates as Arts and Sciences majors) and then to obtain a current address. It is encouraging to note that each department now maintains an up-to-date list of alumni, distributes a newsletter, and has representation on the Advisory Council of the Natural Sciences Foundation. Less than \$1 million in Fall, 1980, the total endowment in the College of Natural Sciences Foundation (which does not overlap the Geology Foundation) now exceeds \$32 million.

Last year the College implemented a program of Department Visiting Committees. (In Geological Sciences, this function is largely served by the Geology Foundation Advisory Council.) However, since the College Foundation addresses a variety of departments, it was not appropriate for its Advisory Council to have that role. Each Department Visiting Committee meets with the chairman and faculty of the respective department semiannually for a day or more. Associating with faculty and students, they learn about the department and its teaching and research programs. The members advise the faculty on curriculum needs as perceived by industry and they assist in providing job opportunities for the graduates. An obvious consequence of their involvement is closer association of the discipline with their industrial employers.

One goal in the Dean's Office is to assist departments in this broader association of faculty and students with the various user sectors of our Society. I believe that if these efforts are successful, our students—5,952 undergraduate majors and 1,444 graduate students—will receive better educations and have more opportunity to pursue professional careers as productive scientists.

Robert E. Boyer

VISITING LECTURERS ENRICH THE DEPARTMENT'S ACADEMIC PROGRAM

by Earle F. McBride

Again this year the Department was fortunate to have a large number of distinguished visitors stop by for a day or more to present lectures or seminars and to share their ideas and wisdom with students and faculty. Visitors bring expertise or perspectives different from our regular faculty and provide an important stimulus to both students and faculty. Visitors are supported by funds from various sources, including those provided by the University, Geology Foundation accounts, governmental agencies and industries. This year saw an exceptional number of visitors, in part because several persons were asked to visit to present lectures and provide counsel on the search for the Getty Chair. Of special note were the visits by Warren Carey, Tom Gold, and John Loftis, Jr., because of the discussion these visitors raised among students and faculty.

Dr. Warren Carey, Professor emeritus at the University of Tasmania, Australia, visited the Department for two days in March. Professor Carey has long been a champion of unconventional and controversial ideas on cosmology, continental drift, and tectonics. The subjects of his lectures were: "The Subduction Myth," "Necessity for Earth Expansion," and "The Null Universe." Dr. Carey's thesis is that the earth is expanding as the result of mineral phase changes, and that sea-floor spreading is one manifestation of this expansion. He argues that Benioff zones are not loci of subduction, but instead are zones of expansion of the crust through diapiric activity. Dr. Carey's unconventional ideas were presented forcefully enough that he attracted one of the largest "rap sessions" with students that we have seen in a long time. Dr. Carey holds both PhD and Doctor of Science PNG degrees from the University of Sydney, Honorary Life Membership in the Geological Society of London, and is the recipient of the Gondwanaland Medal (1963), Clark Medal (1969), and Johnston Medal (1976). His visit was sponsored by the Department of Geological Sciences and Dr. and Mrs. Andy Kugler of Austin. Dr. Kugler is a former student of Dr. Carey.

The controversial astronomer and physicist, Dr. Thomas Gold, came to UT Austin in mid-March for a three-day lecture series on several topics which have challenged astronomers and geologists. Dr. Gold, the John L. Wetherill Professor of Astronomy at Cornell University, is best known for research in cosmology, the theory of the steady-state universe, and for his explanation, now generally accepted, on the nature of pulsars as rotating neutron stars. About ten years ago, in the midst of the energy crisis, Dr. Gold formulated his idea that the majority of the oil and gas deposits in the earth formed by the entrapment of methane and methane-derived hydrocarbons that have been out-gassed from the earth's interior. Evidence cited in support

of his hypothesis includes the occurrence of hydrocarbons in fractured granitic rocks in Sweden, gas despoits in volcanic rocks in Japan, the emission of methane from sea-floor spreading enters, and the helium and argon content of some natural gases. Although Dr. Gold's ideas contrast with conventional wisdom, he is forceful in citing the many anomalous occurrences of oil and gas that are not readily explained by such wisdom.

Dr. Gold was chosen as the speaker to initiate the Jane and Roland Blumberg Centennial Professorship in Planetary Sciences, which was established last year to advance the study of the formation of the earth and other planets. This distinctive professorship will be shared by the Departments of Astronomy, Chemistry, Geological Sciences, and Physics.

John L. Loftis, Jr., independent in Houston who recently retired from Exxon Co. USA as senior vice president, visited the Department in February and shared some of his professional experiences as an employee of Exxon and its precursors and his ideas on the future of the oil industry. Mr. Loftis' lecture on "Assessment of a Geological Career with a Major Oil Company" was presented to a packed room of faculty and students during GEO 193, Technical Sessions. Mr. Loftis stressed several points, including the advantages inherent in a career with a major oil company, personality traits of individuals which seem to be most suitable for a career with a major, opportunities available in such a career, and a discussion of some historical trends in hiring and exploration activity, and their relationship. The question and answer period was especially fruitful, because both undergraduate and graduate geology majors had the opportunity to ask questions of Mr. Loftis about his prognosis for the future of the oil industry, employment opportunities at various levels, and the merits of management versus operations positions. Although his talk was not controversial in the sense that Warren Carey's and Tom Gold's lectures were, it provoked considerable discussion because of the uncertainty of future industry trends. Mr. Loftis is eminently qualified to respond to the questions that arose based upon his 38-year career with Exxon and its predecessors. Mr. Loftis received his BS degree from UT Austin in 1940 and joined Humble Oil & Refining Co. He reached the rank of major in the Air Force during World War II and resumed his career with Humble in 1946. He served Humble in Houston, Wichita Falls, Corpus Christi, Midland, and Tulsa and rose in administrative roles to senior vice president. John Loftis, Jr. is an Honorary Life Member of the Geology Foundation Advisory Council and he served previously as chairman of the Council.

VISITING SPEAKERS

Academic Year 1983-84

- JAMES A. AUSTIN and DALE S. SAWYER, Research Scientists, Institute for Geophysics, "The South Atlantic: A Natural Laboratory for the Study of the Early Evolution of Passive Continental Margins."
- JOHN K. BALSLEY, AAPG Distinguished Lecturer, "Cretaceous Wave-Dominated Delta, Barrier Island, and Submarine Fan Depositional Systems of the Rocky Mountains: Clastic Models for Hydrocarbon Exploration."
- COLIN BARKER, University of Tulsa, "The Importance of Organic Geochemistry in Geology and Vice-Versa."
- IVAN BARNES, US Geological Survey, "The Central Valley Project—Irrigation Doomed Per Se."
- JULIE BICHTLER, Graduate School Library and Information Services, "Geoscience Information Processing—Current Trends and Future Possibilities."
- PETER R. BUSEK, Arizona State University, "Transmission Electron Microscope Studies in Minerals."
- RUTH E. BUSKIRK, Research Scientist, Institute for Geophysics, "Comparisons of Biogeographic and Tectonic History: Examples from the Northern Caribbean."
- WARREN CAREY, University of Tasmania, "The Necessity for Earth Expansion," "The Subduction Myth."
- UEL S. CLANTON, GeoSeminars Corporation, Houston, "Active Faulting in Houston, Texas."
- JAMES M. COLEMAN, Louisiana State University, "Deep Sea Drilling by the Glomar Challenger in the Mississippi Delta."
- WILLIAM R. DICKINSON, University of Arizona, "Tectonic Relations Between the Circum-Pacific and Ouachita-Caribbean Region Across Southwestern North America."
- RICHARD EANES, UT Center for Space Research, "Geophysical Application of Satellite Range Measurements."
- CLIFFORD A. FROHLICH, Research Scientist, Institute for Geophysics, "How Deep are the Deepest Earthquakes?"
- GEORGE HUBER, UT Department of Management, "Heuristics and Biases in Human Judgements."
- J. RICHARD JONES, UT Department of Geography, "A Paleoenvironment Reconstruction of Glacial Cape Cod Bay Lake (9,000-5,000 Years BP)."
- JAMES P. KENNETT, University of Rhode Island, "Micropaleontology and Deep Sea Sedimentation."
- ANTHONY C. LASAGA, Pennsylvania State University, "Ion Probe Diffusion Measurements and Petrologic Applications."
- JERE LIPPS, University of California at Davis, "Paleobiology of Extinction Events."
- JOHN L. LOFTIS, JR., Retired Senior Vice President, Exxon Co. USA, "Assessment of a Career with a Major Oil Company."
- KYGER LOHMANN, University of Michigan, "Carbonate Geochemistry."
- CHARLES NAESER, US Geological Survey, "Fission Track Dating."
- PRISCILLA P. NELSON, UT Department of Civil Engineering, "The Past is the Key to the Present—Applications of Geology to Civil Engineering: Rocks are a lot like students; if you are smarter than they are, you can get them to work for you."
- L. E. NYQUIST, NASA, Houston, "Advice on Mass Spectrometer Specification and Design."
- PETER A. RONA, AAPG Distinguished Lecturer, Hydrothermal Mineralization at Sea Floor Spreading Centers."
- FRANKLIN W. SCHWARTZ, Geological Society of America 1983-1984 Birdsall Lecturer, University of Alberta, "A Case Study of Groundwater Contamination from a Chemical Spill" and "Computers and Hydrogeology."
- CHRISTOPHER R. SCOTESE, Research Associate, UT Institute for Geophysics, "Computer Animation of Plate Motion: Mapping the Oceans and Continents through Time."
- DONALD TURCOTTE, Cornell University, "Mantle Dynamics."
- GLENN VARGAS, Gemologist, Thermal, California, series of lectures and labs on faceting for students in GEO 347K, Gems and Gem Minerals.
- DENNIS S. WOOD, Robertson Research International, Gwynedd, North Wales, "Structural Geology, Tectonics, and Oil Exploration in North Africa."

GEOPHYSICS SEMINARS

Monday, Jan. 30 Marion Bone (Sohio)

The world is really three dimensional—on the structural interpretation of high density three dimensional seismic surveys. Why not a conventional seismic grid?

Monday, Feb. 6 T. K. Kan (Arco)

Can we really tie seismic data to well log data? On the relationship between surface seismic data, sonic logs, and vertical seismic profiles—the reconciliation in practice.

Monday, Feb. 13 R. T. Buffler (University of Texas)

Regional seismic stratigraphy and basin analysis—progress in understanding the Gulf of Mexico.

Monday, Feb. 20 Alistair Brown (Geophysical Service, Inc.)

Reservoir analysis for field development with high density 3D seismic data—an example from the Gulf of Mexico—interactive, 3D, and in color.

Friday, Mar. 2 Burt Bally (Rice)

A guided tour thru "Seismic Expression of Structural Styles."

Wednesday, Mar. 7 Roy Lindseth (Teknica)

Quantitative seismic stratigraphy—on the recovery, display, and interpretation of rock properties from surface seismic data—case histories and future developments.

Monday, Mar. 19 Bruce Gibson (Western Geophysical)

Depth migration—on the conversion from time to depth—how close are we to solving this problem?

Monday, Mar. 26 Robert Tatham (Geosource)

Shear modulus and lithology—on the added information from the shear modulus of rocks—exploration significance and approaches to recovery of the added information—SH crews, converted waves in marine work, converted waves and vector geophone recording, and offset dependent amplitude.

Monday, April 2 Michael Schoenberger (Exxon)

On the interpretive meaning of “resolution”—and the fundamental ambiguity in the seismic method (and a fundamental ambiguity in all geophysical data interpretation).

Monday, April 16 L. Frank Brown (University of Texas)

Seismic data and basin analysis with examples from a passive margin.

Monday, April 23 Paul Stoffu (University of Texas)

Marine crustal studies—refraction data, expanding spread profiles, and seismic reflection data—on the interpretation of large aperture, seismic data, and what we have learned about the crust under the oceans.

Wednesday, May 2 Jack Oliver (Cornell)

Continental crustal studies—Cocorp—examples of what we have learned from deep reflection profiling on the continents.

ASSOCIATION FOR WOMEN GEOLOGICAL SCIENTISTS

The Austin chapter of the Association for Women Geoscientists was established this spring with 35 members. The Austin chapter is one of 14 chapters nationwide. AWG was established in 1977 as a nonprofit educational organization of men and women. The objectives of the organization are to encourage the participation of women in the geosciences to exchange educational, professional and technical information and to improve the professional growth and advancement of women in the geosciences. In April, AWG sponsored a forum on “Career Options in the Geosciences” with speakers Al Scott and Jack Sharp from the University of Texas; Laura Pankonien of *World Oil*, Ronee Reed from the City of Austin, and Grace Klement from the Texas Railroad Commission. Major goals for 1984–85 are to provide career information, professional development, and networking for both undergraduate and graduate students through contacts with the geoscience community. Jack Sharp is the group’s advisor. Co-chairs are Nancy Banta and Susan Roberts Schulz.

FACULTY AND STAFF

Professors

Milo M. Backus, Dave P. Carlton Centennial Professor in Geophysics; PhD, MIT: Seismic exploration with emphasis on analysis, processing and signature refinement of seismic data.

Daniel S. Barker, Fred M. Bullard Professor in Geology; PhD, Princeton: Igneous and metamorphic petrology; experimental phase relations of feldspars and feldspathoids; origin of granite and alkalic rocks; geochemistry.

Robert E. Boyer, Dean, College of Natural Sciences; joint appointment: College of Education; R. E. Boyer Centennial Professor in Geology; PhD, Michigan: Structural geology; analysis of space photographs; remote sensing; earth science education.

L. Frank Brown, Jr., Associate Director, Bureau of Economic Geology; PhD, Wisconsin: Upper Paleozoic stratigraphy; depositional systems; environmental geology.

Richard Buffer, Research Scientist, Institute for Geophysics; PhD, California, Berkeley: Marine geology and geophysics and seismic stratigraphy.

William L. Fisher, Morgan J. Davis Professor in Petroleum Geology; Director, Bureau of Economic Geology; Chairman, Department of Geological Sciences; Director, Geology Foundation; PhD, Kansas: Energy and mineral resources.

Peter T. Flawn, President, UT-Austin; Leonidas T. Barrow Chair in Mineral Resources; Regents Chair in Higher Education Leadership; joint appointment: Lyndon B. Johnson School of Public Affairs; PhD, Yale: Economic geology, environmental geology, geology and public affairs.

Robert L. Folk, Dave P. Carlton Centennial Professor in Geology; PhD, Penn State: Petrography and origin of recent sediments, Tertiary sandstones of Gulf Coast, Cretaceous and Paleozoic limestones of Central Texas; sedimentary properties in relation to geomorphology.

Edward C. Jonas, Undergraduate Advisor, Fall Semester; joint appointment: College of Education; PhD, Illinois: Electron and X-ray diffraction of clay minerals; pyroclastic sediments and uranium deposits.

Lynton S. Land, J. Nalle Gregory Professor in Sedimentary Geology; PhD, Lehigh: Isotope geochemistry; diagenesis; low-temperature aqueous geochemistry.

Wann Langston, Jr., Research Scientist, Texas Memorial Museum; PhD, California, Berkeley: Paleontology of lower vertebrates.

Leon E. Long, Graduate Advisor, Second Yager Professor in Geology; PhD, Columbia: Geochemistry; isotopic age and stable isotope studies.

Ernest L. Lundelius, Jr., John A. Wilson Professor in Vertebrate Paleontology; PhD, Chicago: Vertebrate paleontology; Pleistocene faunas.

Toshimatsu Matsumoto, Research Scientist, Institute for Geophysics; PhD, Tokyo University: Earthquake seismology, earthquake engineering, geophysics, acoustic emissions.

Arthur E. Maxwell, Director, Institute for Geophysics; PhD, University of California Scripps Institute of Oceanography: Marine geophysics and oceanography.

Earle F. McBride, Wilton E. Scott Centennial Professor in Geology; PhD, Johns Hopkins: Sedimentary processes and sedimentary petrology.

William R. Muehlberger, William Stamps Farish Chair in Geology; PhD, Caltech: Tectonics; lunar geology.

Yosio Nakamura, Research Scientist, Institute for Geophysics; PhD, Pennsylvania State University in Geophysics: Geophysics, seismology, lunar and planetary physics, and acoustic emissions.

Amos Salvador, Alexander Deussen Professor in Energy Resources; Undergraduate Advisor, Spring Semester; PhD, Stanford: Stratigraphy; origin of the Gulf of Mexico; petroleum geology.

John G. Sclater, Shell Companies Foundation Distinguished Chair in Geophysics; Senior Research Scientist and Associate Director, Institute for Geophysics; PhD, Cambridge (England): Crustal heat flow; sedimentary basin evolution.

Alan J. Scott, on leave; PhD, Illinois: Process sedimentology; depositional systems; basin analysis.

Douglas Smith, PhD, Caltech: Field, chemical, and experimental studies of igneous and metamorphic rocks; geochemistry.

James Sprinkle, PhD, Harvard: Primitive echinoderms; blastoids, Paleozoic stratigraphy and paleontology of the Rocky Mountains.

Paul R. Stoffa, Wallace E. Pratt Professor in Geophysics; Senior Research Scientist, Institute for Geophysics; PhD, Columbia: Multi-ship, multi-channel seismic surveys for crustal studies.

Willem C. J. Van Rensburg, joint appointment: Dept. of Petroleum Engineering; PhD, Wisconsin: International minerals and energy economics and policy issues; coal characterization and utilization.

Keith Young, Third Yager Professor in Geology; PhD, Wisconsin: Mesozoic stratigraphy and paleontology of the Gulf Coast of the US and Mexico; detailed mapping of the area of the Balcones escarpment; geology of the environment of man.

Adjunct Professors

Ralph O. Kehle, PhD, Minnesota: Theoretical structural geology; active fault systems; geophysics; computer applications; environmental geology.

William M. Rust, PhD, Rice: Geophysics.

L. Jan Turk, PhD, Stanford: Hydrogeology, groundwater quality; environmental and engineering geology.

Associate Professors

J. Richard Kyle, PhD, Western Ontario: Metallogeny; stratabound mineral deposits in sedimentary and volcanic rocks; fluid inclusion studies; industrial minerals; mineral exploration.

Sharon Mosher, PhD, Illinois: Deformation mechanisms and theory and results of pressure solution; strain analysis; mapping with emphasis on metamorphic terrains.

John M. Sharp, Associate Chairman; PhD, Illinois: Hydrogeology; relation of groundwater to ore genesis and hydrocarbon migration.

Clark R. Wilson, John A. and Katherine G. Jackson Centennial Teaching Fellowship; PhD, Scripps Institution of Oceanography, California, San Diego: Geophysical time series; analysis of multidimensional geophysical data field.

Assistant Professors

William D. Carlson, Joyce Bowman Payne Centennial Teaching Fellowship; PhD, UCLA: Experimental and field studies in metamorphic petrology.

Mark P. Cloos, William T. Stokes Centennial Teaching Fellowship; PhD, UCLA: Structural geology; field and theoretical study of mobile belts.

Thor A. Hansen, PhD, Yale: Evolutionary patterns in lower Tertiary mollusks; marine paleoecology and biostratigraphy.

Gary Kocurek, PhD, Wisconsin: Sedimentology—depositional environments and eolian processes.

Wayne D. Pennington, Union Oil Company Faculty Fellowship; PhD, Wisconsin: Earthquake seismology applied to the lithosphere and asthenosphere; global tectonics.

John K. Warren, PhD, Flinders (Australia): Origin of evaporites and carbonates; paleohydrology of saline lakes.

Senior Lecturer

William E. Galloway, Leslie Bowling Professor; Senior Research Scientist, Bureau of Economic Geology; PhD, Texas: sedimentation, mineral fuels, seismic stratigraphy, sedimentary petrography.

Fred W. McDowell, Research Scientist, Department of Geological Sciences; PhD, Columbia: Geochemistry; geochronology.

William D. Sill, PhD, Harvard: Vertebrate paleontology of Triassic reptiles.

Lecturers

Arthur B. Busbey, PhD, Chicago: Vertebrate paleontology; vertebrate functional morphology.

Wulf Gose, Research Scientist, Department of Geological Sciences; PhD, SMU: Paleomagnetism; structural history of Central America.

Professors Emeriti

Virgil E. Barnes, PhD, Wisconsin: Stratigraphy; geologic mapping, tektites; directing compilation of *Geologic Atlas of Texas*.

Fred M. Bullard, PhD, Michigan: Volcanology.

Stephen E. Clabaugh, PhD, Harvard: Metamorphic petrology and volcanic rocks of Texas and Mexico.

Ronald K. DeFord, MS, Colorado School of Mines: Stratigraphy of southwestern US and northern Mexico; history of geology.

Samuel P. Ellison, Jr., PhD, Missouri: Resource geology—fuels, coal, oil, and gas; subsurface geology; micropaleontology and biostratigraphy—foraminifera and conodonts.

Claude W. Horton, Sr., PhD, Texas: Underwater acoustics; magnetotelluric fluctuations; geophysical time series.

F. Earl Ingerson, PhD, Yale: Geochemistry of sedimentary rocks; studies of the Martian surface; hydrothermal studies.

John C. Maxwell, PhD, Princeton: Structural geology.

John A. Wilson, PhD, Michigan: Vertebrate biostratigraphy of the Tertiary of the Gulf Coastal Plain, West Texas, and Mexico.

Technical Staff

G. Matthew Coldwell, Electronics Technician: Trouble shooting and repair of electrical equipment.

Bruce R. Daniels, Mechanic: Maintains field equipment and fleet vehicles; carpentry.

G. Karl Hoops, Analytical Chemist, MA, Texas: Rock and mineral analysis by standard methods; instrumental chemical analysis for trace elements.

Rudolph W. Melchior, Instrument Maker: Constructs special laboratory and field equipment.

Richard L. Morales, Specimen Preparator, BA, Texas: Thin-sections—petrographic and electron microprobe; ore microscopy sample preparation; polished mounts.

David M. Stephens, Photographer: Photography and photographic consultant.

John H. Thorne, Electronics Technician: Design and repair of electronic equipment.

Salvatore Valastro, Jr., Associate Director, Radiocarbon Laboratory, MA, Texas: Radiocarbon assay of recent sediments, groundwater, paleobotanical materials.

Administrative and Secretarial Staff

Joyce E. Best, Administrative Assistant, Geology Foundation office.

Rosemary Brant, Secretary, third-floor faculty.

Ann L. Cloud, Senior Secretary, department office.

Elizabeth A. Kubala, Secretary, second-floor faculty.

Jo Ann Kuper, Senior Procurement Officer.

Betty J. Kurtz, Senior Secretary, second-floor faculty.

Martha A. Ladyman, Senior Secretary, department office.

R. Ann Page, Administrative Secretary, graduate advisor's office.

Cindy L. Pflughoft, Administrative Secretary, Geology Foundation office.

Donna L. Precht, Student Development Specialist II, undergraduate advisor's office.

Edwina L. Rawlins, Secretary, third-floor faculty.

William I. Woods, Executive Assistant.

FACULTY ACTIVITIES

Milo Backus in the fall term taught a graduate course in "Seismic Reflection Systems" and an undergraduate course in "Geophysical Data Processing." As a part of the graduate course, each student selected and modelled a basin, producing synthetic flat layered earth field seismograms with the program "SOLID," made available by John Sherwood. Various near surface conditions were modelled, and the students provided a system design and performance evaluation for structural mapping, and for direct oil and gas detection. The undergraduates were provided with example synthetic seismograms without knowledge of the models, and carried out and evaluated conventional processing on the data. Milo gave a talk on the students' results at the Institute for Geophysics Industrial Liaison meeting in December. He presented a joint-authored paper illustrating the student results at the meeting in London in June 1984 of the European Association of Exploration Geophysicists. Prestack synthetic seismograms have considerable educational value, as well as significant value in real world system design and evaluation. The paper was entitled "Pre-Stack Synthetic Seismograms and Seismic System Design," and joint-authored by M. M. Backus, F. Nepimuceno, J. Simmons, R. Walters, C. P. Todd, G. Treadgold, C. Finn and J. Oberst.

In the spring term the Department again hosted an excellent group of guest lecturers (see article entitled "Geophysics Seminars") in the undergraduate course in Geophysical Interpretation. Milo also joined with Professor Salvador in a graduate course in Petroleum Exploration, and conducted a formal graduate research course aimed at some of the issues addressed at the SEG-sponsored "Seismic Deconvolution Workshop" held in Vail, Colorado in July, 1984. Based on their work in this class, three students presented papers at the Vail workshop. Milo was on the organizing committee for this workshop and chaired the panel session on "Practical Deconvolution." In a related effort, Milo and his student, Jim Simmons, also prepared a paper for the October, 1984 Proceedings of the IEEE.

Milo and Neal Goins (Mobil Research & Development Corp.) organized and chaired the SEG workshop on Offset Dependent Reflectivity at the Las Vegas SEG meeting last

September. Milo also presented a paper at the panel discussion on Offset Dependent Reflectivity at the Offshore Technology Conference in Houston in May.

3D seismic methods provide another research focal point. Milo presented a paper on the subject "When 3D" at the panel on Exploration Economics at the SEG meeting in Las Vegas. It is interesting that the participating panelists agreed that 3D seismic makes sense at all stages of exploration, if swath shooting is included within the 3D systems family.

Milo continued to serve on the SEG Advisory, Honors and Awards, and Research Committees, and accepted an invitation to serve as the SEG Distinguished Lecturer in the spring of 1985. He continued his consulting work for several major oil companies, and served on the COCORP (deep crustal studies) Technical Advisory Committee, and on the Advisory Board for the Teknica, Ltd. integrated interpretation project.

Interest in marine deep crustal studies continued. Galen Treadgold substantially completed his thesis work on the interpretation of expanding spread profiling data previously acquired in the Transect Project, in which UTIG, Dr. Paul Stoffa, and Dr. Joe Phillips played key roles. The value of wide angle reflection data in crustal studies, and in exploration, is becoming increasingly clear. Tracy Stark began work on a one-year, \$84,000 NSF Grant, based on his dissertation proposition, and aimed at the recovery of deep crustal data from the multi-ship deep water data collected on the LASE experiment. Multi-ship geometry control, seismic wavelet control, and compensation for wavefront distortion produced by transmission through the rough basement interface represent the major recognized problems that must be solved in order to image the deep crustal data in the presence of the strong basement scattered energy recorded in deep water marine work. Milo, Paul Stoffa, and Joe Phillips are the principal investigators on this project.

Project SEER (Solid Earth Exploration Research) began its second year in July, 1984, with all fourteen of the original participating companies continuing their support for the second year. The students in this project did an excellent job in presenting results of their research at the first two semi-annual meetings held in Austin in November 1983 and May 1984; and with some prodding, in the more difficult task of documenting their results in the first two semi-annual reports published for the participants. Greg Onstott, under the supervision of Prof. Clark Wilson (Associate Director for Project SEER), was the first student to complete his thesis under the project. Greg will present his results, "Processing and Display of Offset Dependent Reflectivity in Reflection Seismograms" at the 1984 Atlanta SEG meeting in December, 1984. In addition to Backus and Wilson, Dr. Paul Stoffa, Dr. Chuck Denham, and Dr. Jan Garmany are also associated with this project. We appreciate the continuing support of the original participating companies, who each provided \$25,000 annually for Project SEER, and we welcome new participants. The

fourteen companies providing support for the first year are: Amoco Production Co., ARCO Oil & Gas Co., Conoco, Inc., Geophysical Service, Inc., Geosource, Inc., Louisiana Land & Exploration Co., Mobil Research & Development Co., Sohio Petroleum Co., Sun Exploration & Production Co., Teledyne Exploration Co., Tenneco Oil Co., Texaco, USA, Union Oil Co. of California, and Western Geophysical Co.

Dan Barker attended a NATO Advanced Study Institute (on feldspars) at Rennes, France in June and July of 1983. Following that, he spent two weeks in solo wanderings in southern Italy, looking at famous volcanological sites (Vesuvius, Pompeii, Herculaneum, Etna, Vulcano, Lipari, and Stromboli). Although lacking the linguistic flair of Folk or McBride, he learned enough Italian to fend off malnutrition. Back in Austin, Dan taught undergraduate courses in crystallography-optical mineralogy and igneous rocks, and a graduate course on physical processes in volcanology (drawing on part of his Italian visit). In September, he participated in the Mineralogical Society of America symposium on alkaline rocks, held at Wausau, Wisconsin. In an unusually meeting-riddled year, the Geological Society of America meeting in Indianapolis and the American Geophysical Union meeting in San Francisco also pulled him from Austin. At the latter, he reported on a carbonatite volcano in southwestern Uganda that erupted natural Portland cement. Dan's only plans for the summer are to finish writing the papers that he promised to finish last summer, and to continue investigation of an eroded stratovolcano and fossil geothermal system in southern Nevada, the subject of a US Department of Energy contract. He eagerly awaits installation of the new electron probe microanalyser.

Virgil Barnes and his wife Mildred (Milla) participated in the Meteoritical Society meeting held in Mainz, West Germany, in September, 1983. The highlight of the meeting for the geologists was the field trip to view the volcanic maars of the Eifel region. A parallel trip for accompanying members and meteoriticists covered the historic sights. The two groups rendezvoused in the evenings. Following the meeting in Mainz they spent a week with Milla's brother and sister-in-law at Villa Eze les Roses near Nice, and a week with daughter Elizabeth (Tizbo) and family in New York.

In November the Barneses attended the Geological Society of America meeting in Indianapolis, visiting with daughter Louise and family in Nashville, Tennessee on the way and with Virgil and family in West Lafayette, Indiana after the meeting. They also participated in the AAPG annual meeting in San Antonio in May.

Virgil II and family joined Milla and Virgil on Galveston Island for a week in early June, but alas not in Casa de Playa which had been reserved a year ahead. After Alicia, Casa de Playa was no more.

During July the Barneses joined Tizbo and family for a tour of the ancestral region in the Jura Mountains of France from which Milla's great-grandfather came. The European

stint was completed with another visit to Villa Eze les Roses during early August.

Virgil continues on modified service with the Bureau as Director of the Texas Geologic Atlas Project and of the 1:500,000 scale Geologic Map of Texas Project. During the year the Tucumcari and Dalhart Sheets of the Atlas were published, and field work and scribing were completed for the Wichita Falls-Lawton Sheet. This will be the final sheet of the atlas; however, during the year revisions of the Houston, San Antonio, and Van Horn-El Paso Atlas Sheets were published. Other revisions are ready for publication and more are being prepared.

Bob Boyer spends too little time in the Geology Building, but enjoys visiting with members of the Geology Foundation Advisory Council and other Department alumni whom he sees at conventions and other special occasions. His opportunity to "be a geologist" is largely restricted to an infrequent field trip, invited lectures on the Llano area or earth science education, and duties as Past-President of the American Geological Institute.

This *Newsletter* affords geology alumni and other Department friends an excellent opportunity for input into the geology program. Bob notes that he uses this model for other disciplines in the College. "Most departments in the College have a long way to go before reaching the level of interaction and ongoing communication exemplified in Geological Sciences. However, their progress has been impressive. Interested and dedicated alumni do indeed exist in all the sciences."

This past year has been a success story for endowment support in the College. Highlights included the announcement of 16 chairs endowed at \$1 million each for chemistry, mathematics, molecular biology and physics. The College is proud to have a total of 105 endowed faculty positions. Of this total more than 25% are in the Department of Geological Sciences.

Fred Bullard reports that the second revision of his "Volcanoes of the Earth," which was announced in last year's *Newsletter*, went on sale at the University of Texas Press on June 27, 1984. The main feature of the new edition is a chapter on Cascade volcanoes, with a detailed account of the 1980 eruption of Mt. St. Helens. Fred commented that some new volcanic eruptions would be welcome at this time, for reasons which need not be elaborated here. Fred and Evelyn visited Hawaii in November to inspect the Hawaiian volcanoes, especially Kilauea, which has been erupting at intervals for some time. The volcanoes chose to ignore their presence, but only hours after they boarded their plane and were enroute to Texas, Kilauea erupted. Fred and Evelyn visited New York and Washington in late May, and while they did check in at the Smithsonian, the trip was mostly "sightseeing." Fred's annual program at the Fort Bergwin Research Center (Southern Methodist University) at Taos, New Mexico in late July, and the Magma Conference in late August, provided an excuse to spend time at Fred's summer home in Taos and to enjoy the cool mountain air.

Arthur Busbey returned for a second year as lecturer in the Department (and will be here for a third year). He spent the first six weeks last summer teaching GEO 660 (senior field camp) in Taos, New Mexico, and will do so again this summer. The second half of the summer was spent attending Janet's family reunion in Colorado Springs and vacationing around Colorado, Utah, and New Mexico. Art introduced two new courses in the spring semester; an upper division course for non-geology majors, "Geology and Resources of Texas," and a graduate seminar called "Microcomputer Applications in Geology." He has served as an "on-line data base" for the growing number of microcomputer owners in the Department. The University participation in the Apple Consortium, with its reduced prices for MacIntosh computers, has not only increased the number of computer owners in the Department (students and faculty) but has increased the amount of time Art has spent giving advice and showing off the new computer. Art submitted several papers on fossil crocodylians for publication this last year and hopes to spend the second half of this summer finishing up a big project on crocodylian paleobiogeography including some spin-offs on the use of crocodylians as paleothermometers.

Bill Carlson reports a scientifically profitable year in the experimental petrology laboratory, working on an NSF-funded experimental study of subsolidus pyroxene equilibria. "By using my new high-temperature solvent technique, high-quality data can now be obtained at much lower temperatures than was possible before," he writes. "Data for geothermobarometry on coexisting pyroxenes can now be collected in the temperature ranges appropriate to many natural occurrences, eliminating the errors introduced by long extrapolations from higher temperatures." His work on the project at elevated pressures will continue at the NASA facility at the Johnson Space Center in Houston.

Two of Bill's students completed Master's theses on metamorphic rocks of the Llano region: both Gray Bebout and Mary Nelis (whom Sharon Mosher co-supervised) presented aspects of their work at the national GSA meeting in Indianapolis and at the south-central GSA meeting in Dallas. New students are beginning quantitative diffusion studies on other Llano metamorphics.

A highlight of the year was an invitation to lecture at the MSA Short Course on Carbonate Mineralogy and Chemistry at the national meeting in Indianapolis.

At the end of the year, Bill turned over the job of Undergraduate Advisor to Ed Jonas. "I'll miss the close association with students," he says, "but I hope that will be compensated by a bit more time for teaching contacts in the lab and field."

Mark Cloos taught undergraduate structural geology, a graduate seminar on subduction zones and a graduate course on plate margin processes during the 1983-84 school year. He supervised eight MS students and three BS honors theses. Between reading innumerable manuscripts, he submitted three papers for publication. Topics included seismic reflectors in accretionary wedges, thermal model-

ing of convergent plate margins, and fluid pressure conditions during the formation of tectonic melanges in subduction zones. Over the past year, great progress was made in a three-year research project with Ron Shreve, a faculty member at UCLA. They are quantitatively modeling the growth of accretionary complexes at almost all actively convergent plate margins. They not only predict the nature of the complex but the rates of uplift and distribution of stresses within it. Several years of work are finally paying off.

Mark presented a paper on the results of field work in California at the National Meeting of the Geological Society of America at Indianapolis, Indiana and on the application of theoretical modeling studies to the Franciscan complex at the Cordilleran section meeting in Anchorage, Alaska. He participated and presented talks at two Penrose Conferences sponsored by the Geological Society of America. One conference, held in Bellingham, Washington, focused on the petrology of blueschists and eclogites and featured a field trip in the Cascades. The other, held in Eureka, California, was on structural styles in accretionary complexes and featured a field trip in the northernmost part of the Franciscan. To prevent boredom, two grant proposals (one in collaboration with Fred McDowell) were submitted to the National Science Foundation.

Bill Fisher devoted most of his efforts to directing the Bureau of Economic Geology and its various geologic research projects, and serving as Chairman of the Board of the Texas Low-Level Radioactive Waste Disposal Authority. In addition he maintained a fairly busy speaking schedule and testified to the Senate on the Administration's Natural Gas Bill. Bill was active on a number of State and National committees and boards, including Chairman of the OCS Policy Advisory Board to the Secretary of the Interior, and the National Academy of Sciences Committee on Producibility of Oil and Gas.

Bob Folk had a year with a very large standard deviation. In June he went with graduate student Pamela Tiezzi to the NW Italian coast around Portovenere (La Spezia). They initiated a field project on the uppermost Triassic Portoro limestone, a jet-black limestone with gold-colored veins much used as decorative slabs in Italy and even in the U.S. This has turned out to be a very puzzling carbonate rock, with nodules precociously cemented by bacteria, a micrite matrix high in Sr and very low in organics despite the black color, a pervasive metamorphic recrystallization, six generations of dolomite, and baffling stylolite phenomena. Just goes to show again that beautiful rocks are very complicated. Working in Italy was wonderful as always. Then Bob went to Turkey to meet Marge, and they spent a month there (mainly in Ankara) while Bob worked on Turkish carbonate rocks for former student Rafik Salem. They took a field trip to visit the famous hoodoos of Cappadocia, the hot springs at Pamukkale, and along the south coast to look at limestones and ophiolites. The pedogenic theory of ophicalcites developed by Bob and Earle McBride in 1976 for Italy works great in Turkey, too.

Turkey was fun, but the food can't compare with Italian food.

On returning to the US in late summer, Bob joined Hank Chafetz and went to Yellowstone to visit graduate student Victoria Pursell, who is working on the travertines of Yellowstone, mainly around Mammoth Hot Springs. Vicky has discovered all sorts of amazing aragonite morphologies, but in other ways the Yellowstone travertines have many similarities to the Italian ones Bob and Hank are interested in (we had two papers out this year on them, and another one is due out in fall '84).

In the fall semester Bob taught sandstone petrography and gave talks to Univ. of Houston and Univ. of Oklahoma. Just at the beginning of spring break, Bob was attacked by an abscessed lung which had to be sliced away, ending teaching for that semester. Gold medals to Ed Jonas who took over his freshman class, and to Vicky Pursell, Lynton Land, and John Warren who finished off the carbonate course.

This summer he hopes to be well enough to go to Italy again to continue work on the Portoro and examine some other travertine localities with Victoria Pursell, and squeeze in a side trip to Saudi Arabia to visit Jennie and family (now with two daughters and hubby working for ARAMCO) in Dhahran.

William E. (Bill) Galloway again served as the Bowling Professor during the fall semester while maintaining a full calendar of research duties at the Bureau. Research topics ranged from detailed geologic characterization of Frio sandstone reservoirs (to determine the impact of facies heterogeneity on petroleum recovery) to regional stratigraphic synthesis of the Miocene section of the Texas continental shelf.

Bill comments, "Summer will bring around an opportunity to experience two types of geological history when I attend the Georoots field seminar sponsored by AAPG. The tour examines the classic geologic locales (and scenery) of Scotland. Scenery not thoroughly examined by the organized excursions will be topic of my vacation."

The past fall also saw the publication of two books. The first, a reference on terrigenous clastic depositional systems, seems off to a promising start. The second, an "Atlas of Major Texas Oil Reservoirs," appears to be a sure best seller. Unfortunately, Bill only collects royalties on the former.

Wulf Gose finished the transfer of his paleomagnetic laboratory during the past year and it is now fully operational. Three students used the facility to complement their paleontological thesis work. Together with Rich Kyle, Wulf collected a suite of samples from the caprock of the Winnfield salt dome in Louisiana. The initial results are rather intriguing. Two magnetic reversals were observed in a 30-meter stratigraphic interval which suggests that this part of the section formed over a time period on the order of half a million years.

At a research workshop at the University of Houston, Wulf presented two invited papers on his work in Mexico.

He also gave papers at the AGU meeting in San Francisco and the GSA meeting in Dallas. Thanks in large part to the effort of his former coworker, Megs Testarmata, Wulf was able to submit several papers for publication. The most rewarding experience was the teaching of a class in paleomagnetism, both in the fall and spring semesters, which seemingly the students enjoyed as much as he did.

Earl Ingerson's activities during this year have been very much the same as they were last year, with minor modifications:

"I have continued as Editor-in-Chief of the Earth Science Monograph Series, published by Pergamon Press, and apparently the title of Editor Emeritus (*Geochimica et Cosmochimica Acta*) is a continuing one.

My terms as Consulting Editor of *Organic Geochemistry* has expired, but I have been added to the Editorial Board of *Global Tectonics and Metallurgy* as the representative of the International Association of Geochemistry and Cosmochemistry.

Scripta Technica's new journal, which was mentioned in last year's report, did not materialize, but Scripta Technica is taking over publication of *International Geology Review* and will alter its scope and coverage somewhat. The company's president, Victor Winston, has asked me to serve as "Honorary Founding Editor" of the journal, at least for the 25th Anniversary Volume.

Sam Valastro and I have finished our research on the geochemistry of South Texas uranium deposits. The results of these studies have been condensed into three manuscripts, which describe various aspects of the deposits. These are being submitted to the organization that sponsored and financed the work, Electric Power Research Institute and, after they have been studied by EPRI, will be submitted to appropriate earth science journals for publication."

Gary Kocurek had a diverse year of teaching sedimentology, continuing his work on bedform dynamics, traveling to the desert, and administrative work with the Admissions and Support committee. All in all, a rewarding year, but a bit too hectic. He happily reports students Karen Havholm, Tom Lehman, Jamie Nielson and Victor Van Beuren doing well. One interesting event was watching Nielson manage the largest trench ever dug in a linear dune. The operation consisted of pumping water one mile across the desert through fire hose to wet the dune down, then attacking it with a bull dozer.

On the home front, wife Diana continues to travel all too often as a consulting engineer. Gary is left behind to raise the six cats and mow the lawn.

Rich Kyle enjoyed a busy year of teaching undergraduate and graduate courses on ore deposits geology and minerals resources and supervising graduate student research projects. A key event of the year was his promotion to Associate Professor. Although his research interests remain diverse, considerable effort was spent this year on the innovative investigations of metallic sulfide deposits in salt dome cap rocks in the Gulf Coast. In addition to the

potential commercial significance of these lead-zinc-silver concentrations, they also provide an ideal setting to study the genetic relationships among metallic mineralization metalliferous formation waters, and hydrocarbon reservoirs. These investigations have much to contribute to the understanding of the origin and mineralization controls for a number of classic ore deposit types as well as to the mechanism of salt dome cap rock formation. Rich and his students continue to study fluid-related geologic phenomena as documented by fluid inclusions, and a laboratory dedicated to these investigations was established this year.

The summer remained busy with progress made toward completing some research projects. The future looks equally full as Rich has accepted the responsibility as the Society of Economic Geologists Program Chairman for the 1986 Geological Society of America Annual Meeting in San Antonio. Linda continues her active schedule as an editor for the *Journal of Chemical Education*. Brock and Brett continue to provide the true joys of Rich's and Linda's lives.

Lynton Land spent a busy year continuing his studies of dolomitization and the burial diagenesis of the Texas Gulf Coast, and trying to convince numerous students to a) finish and b) publish their results (not necessarily in that order). The National Science Foundation agreed to fund a new electron probe (a 4-channel, fully automated JEOL 733 with auxiliary image analysis and computing capabilities), which made all the proposal writing worthwhile. Lynton is looking forward to using a modern instrument in the fall if all the graduate students hovering at the door can just be beaten back.

Lynton made more than the usual rounds of conferences and meetings, including an SEPM organic-inorganic diagenesis conference at the "Lost Valley Ranch" in Colorado, GSA (Indianapolis and the south-central meeting), and AAPG (picking up his second "outstanding paper" in the *Journal of Sedimentary Petrology*), presenting papers at all. Lectures at several universities and industrial laboratories got sandwiched in between. A three-year appointment to the panel of a major grant-funding agency requires reading about 150 proposals per year, and all the reading and writing hasn't helped the waistline.

Judy Land got a couple of major manuscripts out of the way and now has only a couple more in the drawers. She taught introductory biology and is developing a new kind of course which she will try this fall. The family visited Jamaica again to see how the corals are recovering from the hurricane and to study a new quarry in the Hope Gate dolomite. Aaron (now five) keeps life from being dull, as if that were a problem. The "retreat" in the hills west of town is approaching "build-out" after construction of the new bridge over the river. No telling what the "Bee Cave Grand Prix" will be like in the morning when the road is widened to a five-lane.

Wann Langston and Marietta spent the early part of last summer cruising the eastern Mediterranean and Aegean with a group sponsored by the UT Classics Department.

After viewing ruins and more ruins (actually a very enjoyable pastime) in Greece, Turkey, Italy and North Africa, they visited daughter Sandra, who is the illustrator for UT's continuing excavations at Metaponto in southern Italy. Pleasantly surprising was the number of geologists, including the DeFords and a dozen UT-exes who confounded the guides by looking more at the inherent qualities of the rocks than at the statuary.

As usual, Wann offered his graduate course in "Current Topics in Vertebrate Paleontology" in which lively (possibly not the appropriate word for paleontology) discussions were held about what extinguished the dinosaurs, dinosaur eggs and babies, and whether the giant Texas pterodactyl could fly. Wann, his students, and their fossilized friends were featured in an article by Austin author and playwright Larry Wright, in the September issue of *Texas Monthly*. In November Wann presented the Distinguished Lecture sponsored by the Audubon Society and the Strecker Museum at Baylor University. The topic, of course, was "Dragons of the Air."

After a mild heart attack in December, Wann had an uneventful recovery and is now revolving in the usual circles as before, but with slightly lessened circumference and reduced velocity. On the side, he is directing the reconstruction of a 35-foot-long mososaur skeleton for the Dallas Museum of Natural History. Although less imposing than the dinosaur he assembled in Houston a few years ago, the mososaur will occupy most of the entry hall in the museum.

Marietta has spent a challenging and most satisfying year as president of the University Ladies Club. Somehow she was able to manage this along with her varied other interests, including gardening, presiding over a Great Books group, etc.

The Langstons's plans for summer were not yet decided as of this writing, but various options were under active consideration (as they say).

Leon Long completed his first full year as graduate advisor. That role has proven to be the biggest change of pace since he joined UT. It's a pretty weird life running around doing some teaching, more research, and even more administration. The teaching part had to be cut back to make room for other things. For the first time since GEO 303 was initiated in 1968, Leon had occasion to be on campus and yet did not officially teach that course (but he did give a number of "guest" lectures). Mostly he taught the graduate isotope geology course, the isotope geology seminar course, and two field courses in the late spring and early summer.

Research has continued with application of the Rb-Sr isotopic age method to clay minerals. The experimental approach is so novel that there are still many discoveries to be made—not only to learn when clay diagenesis may have taken place in a particular rock, but also to reveal new data patterns in the more universal sense, and to ponder what the geologic meanings of the ages might be. The lab equipment has been upgraded dramatically within the past

year, but with the improvements have come vulnerability to breakdowns and failures of aging equipment not yet replaced. It's been a rough year in that regard. Leon finished developing a massive software system to do computer graphics, and got those programs and a user's manual installed for general departmental use.

The graduate advisor job has proven to be highly seasonal in its demands, but when it is in season it's a killer. Typically about 300 persons apply to enter the graduate program in the fall semester, and typically there is space for about ten percent of that number of students actually to come. That is a lot of application files to read, a lot of decisions (some very difficult) to be made by the Admissions and Support Committee, and unfortunately a lot of denial letters to be sent out and a lot of telephone calls from disgruntled people to be responded to by Ann Page or by Leon. The rewarding part is to see what a fine group of new students shows up, the largest number in the fall and a smaller number in the spring semester. The graduate students are a pleasure to work with.

Leon was the delighted recipient of the Second Mr. and Mrs. Charles E. Yager Professorship, effective last fall.

Ernest Lundelius spent summer of 1983 working on various research projects. In June he attended the joint meetings of the American Society of Naturalists, the Society for the Study of Evolution and the Genetics Society of America and gave an invited paper in a symposium on Extinctions. He then spent several weeks at the Field Museum of Natural History in Chicago working on the Australian fossil marsupial project. Additional work was done at Harvard, the American Museum of Natural History and the US National Museum.

In the fall semester Ernie taught paleobiometrics and served as assistant chairman of the Department. He completed a paper on a small collection of fossil mammals from a cave in Val Verde County, Texas. This is an interesting assemblage because the site may be one of the oldest positively dated Paleoindian sites in North America. The C14 dates indicate an age of 12,000 to 14,000 years.

A research leave the spring semester of 1984 gave Ernie the opportunity to work on two projects of long-standing interest. One concerns the problem of specific identification of a number of small rodents from Pleistocene deposits which have the potential to provide much detailed ecological information. The other is concerned with the general problem of convergent evolution. In connection with both of these projects, he spent time at the University of Kansas, Los Angeles County Museum, Field Museum of Natural History, Museum of Zoology at the University of Michigan, Harvard University, the American Museum of Natural History and the UT National Museum. These museums have collections that are much larger and with greater geographic diversity than are available here in Austin.

For **John Maxwell**, this has been a year of winding down, most importantly to retirement after 14 interesting and exciting years at UT. His membership on the College Promotion and Tenure Committee will end, as will two

significant professional assignments: his chairmanship of the US Geodynamics Committee and vice-chairmanship of the Board of the International Geological Correlations Program. He says he will miss the challenge of these jobs, but at least will no longer have that excuse for not completing long-delayed scientific writing. A few commitments remain, including unfinished terms as a member of the Board of the Geological Society of America Foundation and a member of the US National Committee on Geology. Fortunately, the graduate students working with John, two PhD candidates and one Master's candidate, will finish approximately simultaneously with his retirement or, at most, with carry-over of only a few months.

In addition to teaching and research, occasional outside assignments for the National Science Foundation, the National Research Council, and the Nuclear Regulatory Commission, and a very interesting visit to review the graduate program in geology at the University of Tulsa, kept John busy. He looks forward to continuing such assignments during his retirement.

John notes that it has been a pleasure to watch the Department grow in numbers and stature during the past 14 years. He counts the addition of an effective geophysics group and association with outstanding scientists of the Institute of Geophysics as particularly noteworthy. With opportunities provided by the Chairs and Professorships now becoming available, John believes the Department should shortly attain the first-class status it deserves.

Earle McBride broke away from administrative duties to give lectures this year to a third-grade class in Austin, the University of Houston, Wichita Falls Geological Society, and Graham Geological Society. He enjoyed meeting with geology alumni at the GSA meeting in Dallas, at the Southwest Section AAPG in Midland, and at the AAPG meeting in San Antonio. He collaborated with an Italian post-doctoral student on a study of the diagenesis of a Miocene turbidite sandstone sequence from central Italy, an outgrowth of a project begun seven years ago. He was an invited participant at a conference on sandstone provenance at the University of Cosenza in Calabria, Italy, in July. Donna accompanied him on this trip and then served as his field assistant on a three-week trip to sample river and beach sands of Italy (it sounds hokey, but Earle claims it isn't) and to collect additional turbidite sandstones for more work on diagenesis. The sand samples will be used, in part, on Earle's project to calculate the total sand-grain population of the earth. Earle also devoted time to the study of eonological phenomena in Italy, for which he has notes available on open file.

Earle completed four years as chairman of the Department at the end of August and turned the helm over to Bill Fisher. Earle has both the fall and spring semesters of 1984-85 off from teaching and administration to do research and gear up for a return to full-time professorial duties next academic year. He says it will take a month to clear the cobwebs out of his third-floor office and sort out the rocks that he collected over the past four years, but after that

sedimentological thoughts will flow again.

Fred McDowell has spent a quiet year logging it out in the K-Ar lab, punctuated by several visits to student field areas in Chihuahua. Student activity in our long-term research program on the volcanic rocks of western Mexico has reached a peak. During the past year three students wrapped up their research projects while five more got underway. At the same time project funding has hit a low point as the NSF tightened its belt. Fred's dream is to bring these two components into phase.

Of the year's accomplishments, Fred is proudest of finally getting a major paper on K-Ar dating in the California Coast Ranges into press with GSA. This work was initiated over ten years ago by several students of John Maxwell. After data gathering, the project passed through several manuscript stages and periods of dormancy. The complexity of the geologic problem and distances separating the co-authors made writing the paper difficult. When published, the available K-Ar data for melange units of the California Coast Ranges will be nearly doubled.

Another achievement this year has been to complete a facility to do fission-track dating within the Department, with most of the effort supplied by one of Fred's students. This technique will significantly expand our capabilities in geochronology. It is particularly useful in deciphering the temperature history of rock units. Already, numerous potential applications have been suggested for it.

Sharon Mosher, reflecting over the past year, feels like she spent all of her time previewing talks, reading theses, and grading tests. In the fall, three of her students presented papers at the Annual GSA meeting in Indianapolis. In the spring, one student presented the results of his research at AAPG, two at South-central GSA, and four at Northeastern GSA. Three of the student talks at the sectional meeting were invited, and at Northeastern one of Sharon's PhD students, Rachel Burks, won the Best Student Speaker Award. Of course, scattered among all the professional talks were four Technical Session talks and two job talks. Three of her Master's students finished in the early spring and two in the summer. Her first PhD, Ranaye Dreier, finished her dissertation in the summer and went to work for Oak Ridge National Laboratory and for the University of Tennessee as an adjunct professor. Sharon commented, "I can't think of a better reward than having my students do so well; I am very proud of them."

Undergraduate structure class was unusually large in the spring with nearly 150 students, but between teaching that, a new course with Bill Carlson on petrologic processes, and Advanced Structure, Sharon still managed to send off two papers for review in the fall and to finish her DNAG article on the Alleghanian orogeny in the Northern Appalachians in the spring. Sharon also presented an invited lecture at Northeastern GSA and co-chaired two symposia, one at South-central and one at Northeastern GSA. At Christmas time, Sharon was pleased to hear that she had been promoted to associate professor with tenure effective in the fall. Over the summer she revised three papers, sent off

two new ones for review, and made major headway on a DNAG article on the Precambrian of Texas. In addition, she analyzed data from Rhode Island, did some reconnaissance mapping in Llano and Van Horn, Texas, field checked a new Master's student in West Texas, and went to Boulder for the JTPC meeting to set up the structure and tectonics program for the annual GSA meeting in Reno. All in all, a very fruitful year.

Of course the most important event for Sharon this year was the birth of her first child, Sarah Elizabeth Helper, a healthy 9 lb., 9½ oz. baby girl on February 21st. Fortunately she inherited "sleepy genes" from her parents so she lets them sleep at night. She has heard so many talks already, Sharon's graduate students are betting Sarah's first words will be "Ladies and Gentlemen of . . .".

Bill Muehlberger's half-time split on teaching and research was divided differently this school year. He taught a full load during the fall semester and was completely free for the spring semester (except for the continuing role of thesis/dissertation supervisor/member). He managed a first this fall by having Dick Truly, Commander of Space Shuttle Mission 8, as a visiting expert in his senior "Evolution of a Continent" course while the students were presenting the result of their analysis of space photos for their assigned area on earth. Dick had taken many of the photos on his earlier Shuttle Mission 2 flight and he provided a different perspective about geology from orbit to the class.

Trips that are mainly concerned with the AAPG-sponsored Tectonic Map of North America project seem to continue without cease. This spring semester alone saw him travel to the Marathon region (student research), Ottawa, Dallas, Menlo Park, Midland, Norman, Trans-Pecos Texas, Woods Hole, Dallas, Miami, White Sulphur Springs, W. Va.; Helen, Ga.; San Antonio; and a couple of one day jaunts to NASA for astronaut briefings on areas of specific geological interest for the given mission.

Bill planned to spend the summer on map-related work: most of June in Alaska, a few weeks in Mexico, and the rest drafting in the hope of keeping close to the proposed deadline of having a complete draft by early next year.

He was appointed to the John E. "Brick" Elliott Centennial Professorship for 1983-84 and to the Board of Associate Editors for the Geological Society of America *Bulletin*.

Wayne Pennington and his students were kept hopping this past year by local earthquakes and the local press. First, an event near Fashing (Atascosa County, just southeast of San Antonio) in July, 1983, caused quite a stir. Then, just after the conclusion was drawn that the earthquake was induced by fluid (mostly gas) withdrawal and associated pressure reduction along a normal fault, a much larger (magnitude 3.0) earthquake shook nearby Pleasanton and neighboring towns. That was in early March, 1984, and aftershocks continue. Graduate students Scott Davis and Steve Carlson searched existing seismograms for earlier events from the Pleasanton-Fashing area, and found about ten more in the previous ten years. Petroleum Engineering

graduate student James DuPree led the way through the maze at the Railroad Commission, finding the pressure histories of the field responsible for the Fashing earthquake, and Bureau of Economic Geology scientist Tom Ewing determined the local structure. Nobody would have guessed it, but South Texas is becoming quite a seismically active part of the state.

On other fronts, Wayne's family grew only in size of members, not absolute numbers. Two little boys can sure keep parents busy and often sleepless.

A Penrose conference in Washington State, Seismological Society of America meeting in Anchorage, and occasional forays to other cities and seismograph stations keep Wayne on the road and in airports more than he cares to be, so he decided to do something about it. He volunteered to be the General Chairman of the 1985 Seismological Society of America annual meeting, and to hold it in Austin (April, 1985). A hard way not to travel. . . .

Amos Salvador's fourth year as a professor was marked by a more moderate need to devote most of his time to the preparation of course materials. He notes that even though there is still much room for improvement, the panic button has not seen as much use as in previous years. There is a small light at the end of the tunnel.

The first three correlation charts of AAPG's project COSUNA (Correlation of Stratigraphic Units of North America), of which Amos is a co-project director, were put on sale in late 1983. Thirteen more will follow in the next year or two. He wrote a short paper explaining some aspects of the construction of the charts and submitted it to the AAPG for publication. Preparation of the volume on the Geology of Gulf of Mexico Basin for the GSA's Decade of North American Geology project (DNAG) has made progress: Amos has written an introductory chapter and the chapter on the Triassic-Jurassic; he also edited the first drafts of several other chapters. He plans to spend most of the 1984 summer working on this project. The International Subcommittee on Stratigraphic Classification (ISSC), of which Amos is chairman, has also taken a great deal of his time, particularly in preparation for the meetings at the International Geological Congress in Moscow in August of the ISSC and its parent organization, the International Commission on Stratigraphy.

The easing of the teaching load has made it possible to believe that in the years to come, more time will be available for research and work with students.

John Sclater and his two boys arrived in Texas from Boston, Massachusetts in August of last year. Since then he has been concentrating on his teaching in the Department and his research at the Institute for Geophysics. In addition to teaching two graduate courses and helping with one undergraduate course, he has started research programs in the depth and heat flow anomalies in the western Pacific, and continued research started at MIT on (a) the subsidence of continental shelves and basins, and (b) paleogeographic and paleodepth studies of the oceans. He plans to spend the summer at Cambridge University in England

putting together the framework for a major industry/academia research program on the North Sea basin.

Al Scott has received a leave of absence for next year. After 25 years at The University Al is leaving academia and sallying forth. He has joined Miles Hayes (UT PhD '65) and John Horne in starting up a branch of Research Planning Institute. The new company, RPI/Texas, will be located in Austin. Initial projects will focus on regional stratigraphic studies of economically significant Gulf Coast units.

In his last full academic year of teaching Al may well have had a record number of graduate students finish up their degrees. Three Master's and one Doctorate finished in the fall semester, and another four Master's and no Doctorates graduated in the spring semester. It is amazing what the fear of impending departure of a supervisor can do to wipe away "writer's block." Several other students are on the verge of finishing and should soon wrap up their research.

During the past year Al also served as director of the Geology Foundation. He had the opportunity to visit with many Texas-exes at the meeting of the GCAGS in Jackson, Mississippi, the Southwest Section AAPG in Midland, and the AAPG in San Antonio. At the latter meeting Al tried to assure everyone he still had orange blood. That may be true, but rumors are that Final Bedlam will no longer run overtime due to all the Al Scott impersonations.

A. J. likes to think that he is mellowing. This past year it does seem that he only rarely destroyed entire 320K field groups with a single blast. The fire hadn't gone out completely (as some individuals could attest), though there was a little more selectivity involved. After his last lecture one of the students asked "what he was going to do after he retired" . . .

Jack Sharp had a busy year at UT. The graduate and senior classes in hydrogeology were both near their enrollment maxima. Jack also took his turn at Geology of Engineering last spring. He and Wayne Pennington wrote a new lab manual for this class, which serves students in petroleum land management and engineering (architectural, civil, and petroleum). The Friends of the Gulf (FOG) seminar completed its third semester. This fall's FOG seminar will write a review/synthesis paper for Elsevier on Gulf Coast geology, hydrogeology, diagenesis, and fluid chemistry. A graduate level class/seminar, Geology and Hydrogeology, was given with Charle Kreitler last spring. The class, popularly known as the "Jack and Charlie Show," culminated with a four-day field trip to west Texas. Finally, an experimental well-field was constructed, thanks to financial and equipment contributions from Bob Kent (BA '72). It will be used by both graduate and undergraduate classes.

Professionally, Jack spent the summer preparing contributions to the DNAG volume on ground water. He also sponsored a successful symposium at last fall's GSA, entitled "Geochemical and Hydrodynamic Controls on Ore Deposition in Sedimentary Environments." Jack's research interests continue to involve both the application of hydrogeology to problems of geology and water resources

analysis. In the spring, he participated in "Current and Future National Water Problems and Issues Related to Hydrology," a workshop sponsored by the American Institute of Hydrology (AIH). Jack is also working with the AIH's Task Force on Professional Evaluation and serves on the GSA's Meinzer Award Committee.

Doug Smith has had a fruitful year teaching and working on research projects. In the fall he taught undergraduate igneous petrology and a graduate course in thermodynamics; he hopes that the students learned as much taking the courses as he did teaching them. In the spring he taught a course planned for obsolescence—analytical techniques based mainly upon work with the old electron microprobe. The new electron probe will probably have arrived before this *Newsletter* is published, and it should completely change the way grad students and faculty in the department study rocks in the laboratory. Teaching GEO 320K, Elementary Field Geology, provided a welcome relief to all this high-tech science during the spring. Weather in the Llano area was beautiful, and it was good fun puzzling over the outcrops of granites and gneisses amid the bluebonnets.

One theme of geological research this decade is to understand the evolution of the lithosphere, and Doug is contributing to the effort by studying inclusions in kimberlites (the sources of diamonds) and other volcanic rocks, in order to deduce the processes which form magmas and deform the earth's crust. His major disappointment so far is the lack of any diamonds, but everything else has been going well. He and Clark Wilson have been measuring mineral compositions and testing mathematical models for how the compositions have evolved. They are working to establish a stratigraphy and history for part of the earth between about 30 and 200 km depth. This summer he spent a week in the Sierra Nevada of central California looking at igneous rocks through a blur of trout-filled water, and he may start some studies there soon. There are obvious advantages in field areas more accessible than the earth's mantle . . . though he says it has been very comfortable working in regions where field-checks are impossible.

Jim Sprinkle had a fairly quiet year in 1983-84, probably because "I'm still trying to recover from the last major project and figure out what to work on next." Several small-to medium-sized papers on fossil echinoderms are almost finished, a textbook chapter and a joint paper with former UT graduate student Ronald Lewis are in press, and one abstract summarizing work started nearly 20 years ago was published. Jim was assistant chairman assigning teaching assistants to courses again last spring and suffered through a new record when a TA resigned and everything fell apart exactly ten minutes after all the assignments had been finalized—the previous record has been 20 minutes after completion. Jim also finished his term as a Paleontological Society Councilor but continued to serve on their Membership Committee.

Jim's teaching included Paleobiology (with a still-high enrollment of 139) and Elementary Field Geology in the

fall, and Plate Tectonics and Earth History, which has drastically fallen to 71 students from 166 just two years ago, in the spring. The drop-off in undergraduate majors seems to be slowly working its way up through our program and will probably reach the junior level next fall. Jim spent three weeks during the summer teaching Senior Field geology and then a month revisiting fossil localities in the central and northern Rockies.

John Warren this year taught Depositional Systems and Field Methods at the undergraduate level, a graduate course in Carbonate Depositional Systems in the fall, and a graduate course in Evaporite Sedimentology in the spring. He continued his field studies of the Holocene Coorong Dolomite in South Australia. In addition to his original NSF grant of \$60,000, he applied for and received a supplementary grant of \$30,000 from NSF. This supplementary grant allows him to fund two graduate-student projects in Australia. Last December he and Patti Granger completed a successful field season in the Coorong and the preliminary findings were presented at the AAPG meeting in San Antonio. In July John returned to Australia for six weeks to continue his studies on the Coorong carbonates. As a part of this trip he chose drill sites for next December. In December he will return to Australia with graduate student Joe Greenberg. They will spend four to six weeks diamond drilling into possible mixing-zone carbonates below the Holocene Coorong dolomites. The Coorong is unique in that massive dolomites up to 1 m thick are forming in Holocene lakes on a carbonate coastal plain. If mixing-zone dolomites are forming just below the surface somewhere in the world, it should be below the Coorong Lakes.

John also did some work in the Middle East in the last year. He is studying the Arabian (Persian) Gulf sabkhas in the vicinity of Abu Dhabi as well as depositional and diagenetic relationships in the major carbonate reservoirs in the Gulf, namely the Arab, Shuaiba, Thamama, and Mishrif Formations. A preliminary paper on the modern sabkhas (co-authored with Chris Kendall) has been submitted to the AAPG *Bulletin*. In July he co-led (with Charlotte Schreiber) a two-week field course in Sicily to study the Late Miocene evaporites and carbonates.

On the home front John is working with Laura Elliott (Master's candidate) on depositional and diagenetic controls within the San Andres Formation in New Mexico, concentrating on surface and subsurface studies in the vicinity of Roswell. Highlights of the year's nonacademic activities included leading a field trip for his eldest son's science class at O'Henry Junior High and speaking to the Austin Desk and Derrick Club.

Clark Wilson experienced a busy year in 1983-84. In addition to his teaching (Exploration Geophysics and Linear Systems in the fall, Plastic Wave Propagation in the spring), he has been involved in the research work of Project SEER, an industry-supported effort to study seismic reflection data in a quantitative way, and National Science Foundation supported research on the interpreta-

tion of zoning in mantle rocks. He continues to spend a small portion of his time on the esoteric subject of the earth's rotation. This summer, he will travel to England to give a paper at the European Association of Exploration Geophysicists in June. Weather permitting, he continues to bicycle to school, although he now also runs to school from time to time.

Jack Wilson and Marge made an exciting trip to China last September. Accompanied by Judith Schiebout of LSU (BS and PhD from UT) and Dr. Mary Dawson of the Carnegie Museum, Pittsburgh, they were taken to paleontological and archaeological sites from Inner Mongolia to Guangzhou (Canton), China. One of the books that started Jack on a career in vertebrate paleontology was "On the Trail of Ancient Man" by Roy Chapman Andrews. It was, therefore, an especially rewarding trip to visit some of the Mongolian sites that Jack had read about in 1929. "There are still plenty of bones out there and we drooled over beautiful skulls and jaws that we collected for our Chinese hosts."

Jack's group of four was accompanied by one or two of their Chinese colleagues. They had a very gracious reception at the Institute for Vertebrate Paleontology and Paleoanthropology in Beijing at the beginning and ended with a reception for visiting scientists in Guangzhou (Canton), hosted by the Governor of the Province on September 30, the anniversary of the founding of the Peoples' Republic of China. Jack expresses gratitude to the Geology Foundation for providing the airfare to and from China.

In cedar fever season Jack and Marge retreated again to Hawaii. This past spring meant lots of yard working, replacing shrubs, nursing the lawn back to shape and trying to continue work at the VP Lab.

Keith Young still teaches Introductory Physical Geology in the fall and two sections of Stratigraphy in the spring. In the summer of 1984 he taught Historical Geology in the second summer term. He further lives the "life of Riley" as senior active (that is, non-retired) member of the Department.

Keith's *Mexico*, in volume 2B of *The Phanerozoic Geology of the World* has recently been published, although a little out of date as the manuscript was submitted some six and one-half years before publication.

After presenting a paper on the *Stratigraphy of the Austin Chalk* at the meeting of the South-Central Section of the Geological Society of America at College Station in the spring of 1983, he again became interested in the rocks of this group and is now studying the microfacies of the Austin Chalk.

Keith continues an interest in the Late Jurassic and Early Cretaceous rocks around the Gulf of Mexico, and is studying the ammonites from these rocks. He attended the field trip sponsored by the American Association of Petroleum Geologists on the stratigraphy of the Sabinas Basin in May of 1984 and was co-leader of a trip on the Cretaceous Volcanism of the Austin Area. Keith also served as judge of

a session for the Society of Economic Paleontologists and Mineralogists at San Antonio.

Keith's mapping of the greater Austin area from 15 to 20 years ago is now being utilized by the Environmental Department of the City of Austin as a basis for some of their environmental studies of the Walnut Creek watershed.

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In Memoriam

Mr. James W. Addington died in Tyler Hospital in Bullard, Texas on Sunday, January 22, 1984.

Mr. Addington was born in Smithville, Mississippi on November 2, 1917. He was a graduate from UT with a BA in geology in 1937. For 43 years he was employed by Humble Oil, which later became Exxon. He retired in Emerald Bay, Texas. He was a member of the American Association of Petroleum Geologists.

Mr. Addington is survived by his wife, Alice; two sons, Jim Addington and Dr. A. R. Addington; a daughter, Alice Hammond; and five grandchildren.

Mr. Julian D. Barksdale died of a heart attack on December 20, 1983. 'Barky', as he was known by all, will be remembered for more than four decades of geological research in the Methow Valley on the eastern flank of the Cascade Range of Washington. More importantly, he will be remembered as the man who befriended and remembered *everybody*, both geologist and non-geologist; the young and the old, the chiefs and the Indians. For him the oil can was mightier than the sword and the way to treat adversaries was to "kill 'em with kindness. Any cause with the barest hint of duty or responsibility to people would have him pulling like a Clydesdale.

Mr. Barksdale studied at the University of Texas and Stanford University. He began teaching at the University of Washington in 1936. In 1938 Barky married Marajane Burns Warren and began his study of the Chelan, Okanogan and Methow valleys of north-central Washington. For years Marajane drove him to the end of logging roads and, while waiting for him to finish a traverse, patiently read thick volumes or gathered bark and flowers for the art classes she taught at elementary schools. Alternatively, she, with son Tucker in tow, would accompany Barky and the pack train of horses into wilderness along the Canadian border.

Barky served in World War II as a Lieutenant Commander in Naval aviation without wings. He became a supply officer in the South Pacific. His interest in sedimentary geology was enhanced by the military problems with coral reefs, but his real reward was the ability to relate to GIs returning to UW after this and the Korean and Vietnam wars.

Barky is survived by Marajane who continues to live in Seattle, by Tucker and his family who have become stalwarts of the Methow Valley, and by many students and extended families everywhere.

Eric S. Cheney
Associate Professor
University of Washington

Mr. James John Bell, 50, died March 15, 1984 in a Fort Worth hospital.

Mr. Bell was born November 22, 1933. He graduated from the University of Texas with a master's degree in geology in 1963. He worked most recently as an independent consultant.

Mr. Bell is survived by his wife, Joan; two daughters, Jennifer and Joanie; his mother, Mary Bell, and two brothers, Tony and William.

Mrs. Marion Clarke Cook died April 30, 1984 in Austin. Mrs. Cook was born in Hempstead, Texas on October 30, 1901. She married Carroll E. Cook on December 23, 1922. Mrs. Cook is survived by her husband, Carroll E. Cook; her son, Carroll; six grandchildren and one great grandchild.

Mr. Timothy G. Smith, 60, was found dead in his home February 7, 1984 in Heath, Massachusetts.

Mr. Smith was born in Milwaukee, Wisconsin, April 2, 1923. He was a graduate of Williams College, in 1945, having transferred from the University of Virginia. He received a master's degree in geology from the University of Texas in 1947. He also studied law at Cornell University Law School.

Mr. Smith worked as a petroleum geologist for several major oil companies and the US Department of the Interior

in South America, Canada and the US. He was also self-employed as a consulting petroleum geologist. He was a member of the American Association of Petroleum Geologists and the American Institute of Mining and Metallurgical Engineers.

Mr. Smith was a World War II army veteran.

He is survived by his sister, Julia Hall; a niece and two nephews.

Mr. Ray Walter Thompson died May 24, 1983 of a heart attack in Methodist Hospital in Houston.

Mr. Thompson was born November 26, 1912. He graduated from UT with a BA degree in geology in 1938. He worked for Teledyne & Humbard Associates in New Mexico, Texas and Colorado.

Mr. Thompson married Mary Donelson Gerald July 3, 1948 and they lived in Midland until he retired to San Angelo in 1980.

Mr. Thompson is survived by his wife and two sons, Jerry and Rex Gerald; his daughter, Betty Gerald; three brothers and one sister.

Mr. Richard S. Travis died January 27, 1984 from myelogenous leukemia in Jackson, Wyoming.

Mr. Travis was born February 24, 1924 in Tulsa, Oklahoma. He graduated from the University of Texas with

a BS in geology in 1948 and worked for Union Oil Co. of California. He also did consulting work in Oklahoma, Kansas, Montana and Wyoming. In the 1950's Mr. Travis became a partner in Travis Oil Co., president of Dawn Drilling & Mining Co. and president of American Drilling Co.

Mr. Travis was especially interested in international relations and became a member of the United World Federalists and the United Nations Association, an organization with which he worked until the 1970's. In his later years he wrote a proposed revision of American foreign policy which was read by many members of Congress.

Mr. Travis is survived by his parents, George and Ethyle Travis; his wife, Carole; his daughter, Laura; his sons, Steven and William; and stepchildren, Kim, Bret, and Christopher Burroughs.

Mr. Robert Wesselhoeft, Jr. died this year in a hospital in Temple, Texas.

Mr. Wesselhoeft was born in Caracas, Venezuela. He attended Harvard University as an undergraduate and received a master's degree in geology from the University of Texas in 1967. He worked for Drilling and Exploration Co. in Abilene and Midland and later as an independent consultant.

Mr. Wesselhoeft is survived by his wife, Gretchen; his daughter, Marjorie Kramer; his son, Robert Wesselhoeft; and his stepson, John C. Whitehurst.

Each year brings unhappy news of the deaths of additional ex-students and associates of the Department of Geological Sciences. We want to keep you informed of these events, but our records are nearly always incomplete and our news-gathering is inadequate. Therefore we ask you to help by sending information when possible.

Alumni News



1947 Geology 660 class in Brady, Texas. Front row seated: Doc Troop, James Joyce, Bob Grayson, Lynn Blackwell, Chick Jenkins, Charley Buttler, Freddie Mayora. Second row: Jim Alphin, F. M. Adair, Edward Kennedy, Don Longnecker, Hugh Curfman, Fred Eduard, Bill Fuge, Buzz Faunteroy, Hal Cox, Bill Devine, Gardley Moon, Dutch Halepeska. Standing: Dr. Fred Bullard, Travis Parker, Billy H. Boggs, Paul Geraudine, Paul Pickett, William Kendel, Milton Janzen, Edward Leggatt, Clem Novasad, John McGinley, Mike Morris, George Scutler.

Edwin V. Acker, Jr. (BS '56) is an independent geologist and rancher in Tilden, Texas. "Oil business is good; ranching bad—having to sell a big part of herd due to drought conditions. Bev and I still healthy, happy and working hard. Do ranchers or geologists ever retire?"

Samuel C. Adair, Jr. (BS '56) is a geophysicist working for Exxon in Houston. "Still enjoy living and working in Houston."

Jim W. Adams (BS '51) as geological advisor and technical coordinator for Exxon is "looking forward to the European Fuels Conference in Geneva. Know a lot of Texas Exes going. Will take a field trip to Switzerland led by Rudolph Trumpy. Heard a lot of good papers by Don Bebout, Pat Bolden and Will Green this year."

Charles W. Alcorn, Jr. (BS '52) is the owner of Alcorn Companies in Victoria, Texas. "Still looking for oil and gas in Texas and south Arkansas. Finding some occasionally. Enjoy-

ing Austin lately what with a daughter about to get her Master's degree. Come see us in Victoria."

Fred Altman (BS '42) is an investment executive at Paine Webber in Ft. Lauderdale, Florida. "If any transplanted Texans are in the south Florida area I would like to hear from you. I am enjoying the business and play tennis every day."

Gene Ames, Jr. (BS '55) is president of the Venus Oil Co. in San Antonio. "We're here in San Antonio and the coffee pot is always hot. We're still looking for good drilling deals."

David L. Amsbury (PhD '57) is a geologist for NASA in Houston. He enjoyed AAPG and the response to the poster paper and field trip. He says, "Ann and I came through Alicia losing only a night's sleep."

Nancy Jenswold Anderson (BA '50) as managing principal/owner of Urban Environment Associates in Dallas says, "My firm is part of the consulting firm evaluating proposals to create

an urban lake of the Trinity River adjacent to downtown Dallas. My volunteer work in 'spare time' includes efforts to protect the 'escarpment zone' in south Dallas county from destructive development. Although I am working in a different field my residual knowledge of geology is still useful."

Paul D. Anderson (att. '39-'43, '45-'47) is still a partner in W. D. Anderson and Sons in Midland and most of his work is now in North Dakota, Montana, Colorado, Alabama, and Mississippi. He says, "All is well here—Ken is ranching in South Dakota and Karen is in San Marcos, Texas."

Payton V. Anderson (BS '45) a partner in W. D. Anderson and Sons in Midland is "active in oil and gas exploration in all areas of US except Gulf Coast and California." He and his wife, Evelyn, have six grandchildren. Their main recreation is traveling and golf.

Richard G. Anderson (MA '83) is a geophysicist for Chevron Geosciences in Houston.

- Thomas H. Anderson** (MA '67, PhD '69) is an Associate Professor in Geology at the University of Pittsburgh. He says, "While I roam northern Mexico, Tanna plays tennis, Sara Lee (14) swims and Garrett (12) plays soccer."
- Carl E. Andrews** (BS '58) is vice-president at the InterFirst Bank in Dallas.
- David Angstadt** (MA '83) is a geophysicist at Texaco, USA in Los Angeles.
- Edgar P. Armstrong** (BS '51) is a national petroleum industry coordinator for IRS in Dallas.
- Edward R. Atwill, IV** (MA '60) is the vice-president of International Exploration for Kerr-McGee in Oklahoma City. "Helen and I call Oklahoma City home now and like it. The new job requires considerable foreign travel. We're preparing to test a very large structure offshore in the south east Java Sea this summer with Kerr-McGee as operator. Will tell you about it next year."
- T. Dale Bagwell** (BS '79) is an exploration geologist for Texas Eastern Exploration Co. in Houston. "I have sat wells from Mississippi to onshore California, from the Red Sea to offshore North Slope. I never dreamed there would be such travel and interesting geology."
- A. C. Baker** (BS '51) is an independent geologist in Wichita Falls.
- Ernest T. Baker, Jr.** (BS '55) is a senior geologist at the US Geological Survey in Austin.
- Gus B. Baker** (BA '49) is retired but still serves as a consulting geologist from his home in Bastrop, Texas. He says "All is well in retirement; I recommend it to everyone."
- W. F. (Bill) Baker** (BS '51) is recently retired. He and his wife are looking forward to fishing, golfing and travel.
- Bill Banowsky** (BS '82) is a graduate student at the University of New Mexico and lives in Seabrook, Texas.
- Chris A. Barker** (BS '78) is a graduate student at Baylor University in Waco. "I am pursuing a Master's at Baylor under geo-minotaur, O. T. Hayward, past and future geomorphic evolution of the universe. I am approaching poverty at warp speed, but I like it."
- Jerald H. (Jerry) Bartley** (BS '37, atten. '38) is an independent geologist for Remote Sensing Exploration in Midland. "After 46 years at practicing petroleum geology I am having the best time of my life in remote sensing exploration with earth satellite images in conjunction with 'gamma ray' radiometrics. Family is all OK."
- Gerald S. Barton** (MA '71) is chief of operations systems and services division for the National Oceanic and Atmospheric Administration in Washington, D.C. His work involves computer applications and image processing of satellite remote sensing data. Kristin is 13, Barb is a real estate agent. They live in northwest D.C. and have a Clabaugh-style ranch on the north fork of the Shenandoah River.
- M. Cengiz Bastug** (BS '68, MA '70) is senior geologist for the Pecten International Co. in Houston. He says, "I started working in southeast Asia. It is different and interesting after 13 years on the circum-Mediterranean region. My wife, Sharon, and I are looking forward to vacationing in Turkey in July."
- Joe Beard**, (BS '42) is an independent geologist living in Wichita Falls.
- Lynn S. Beeler** (BS '62) is systems engineer for CLR, Fast-Tax in Carrollton, Texas. "I left the army in October '82 and have been working in Dallas as a programmer for CLR in a firm which does computerized tax returns."
- Robert L. Begeman** (BS '42) is president of Lovis Companies in San Antonio. "I am continuing exploration principally in south Texas with our share of success."
- Sid Bell** (BA '46) has added Pilgrim Pewter, Inc. to his Sid Bell Originals, Inc. in Tully, New York. Sid Bell Originals makes jewelry for sportsmen in silver and gold. Pilgrim Pewter makes jewelry for sportsmen in bronze, pewter, walnut and mahogany. He engraves and carves all original models and his son-in-law does the pewter casting. His businesses are in over 30 catalogs and he sells to more than 350 stores and galleries nationally. He just completed a solid gold tie tack and cuff links of horses' heads for President Reagan.
- Walter E. Belt, Jr.** (BS '43) is land manager for Global Natural Resources in Houston.
- Gregory A. Berkhouse** (BS '82) is a graduate student at Indiana University in Bloomington. He says, "Why the heck I left Texas to go north I'll never know."
- Jack N. Berkley** (BS '52) says "Love thy work and work is no longer work—thus life is fantastic with this hook'em family." He is manager of drilling and production for the Crown Central Petroleum Corp. in Bellaire, Texas.
- Don G. Bilbrey** (BS '53, MA '57) is manager of enhanced recovery for Gulf Oil Exploration and Production Co. in New Orleans. "I'm sweating the after effects of the Chevron takeover to see if there's a place in the new organization for me. My main interest is CO₂ flooding. Gulf has two overwater field trials going at this time."
- David Birsa** (PhD '77) is the Sudan exploration coordinator for Chevron Overseas Petroleum, Inc. in San Francisco.
- W. T. Biskamp** (BS '54) is manager of the minerals department for Placid Oil Co. in Dallas. "Our five kids have finally finished 25 man-years (one girl) at UT, but all are working. Mona is still number one in Dallas real estate."
- Thomas S. (Tom) Blackwell** (MA '52) has retired. "Completed 32 years with Gulf Oil in exploration on July 31, 1983. Wife went to work—she only has 25 years to equal my time (raising two children and getting two degrees don't count)."
- Harvey Blatt** (MA '58) is professor of geology at the University of Oklahoma. He says, "eldest daughter, Susan, is married and living in San Francisco Bay area; Linda graduates from UCLA in June 1984; Barbara graduates from UC at Santa Cruz in December 1984. My wallet graduates to increased thickness at that time. I have started work with a co-author on another book, number 4."
- Robert H. Blodgett** (PhD candidate) is an assistant professor in the Department of Geology and Mineralogy at Ohio State University in Columbus.
- Bob Bluntzer** (BS '60) is ground-water planning coordinator for the Texas Department of Water Resources in Austin. "Enjoyed being 1983-84 Austin Geological Society President. Worked on Texas water plan in TDWR's Planning and Development Division. Went on enjoyable family trip to Big Bend during spring break."
- Billy H. Boggs** (BS '54) is district supervisor for the Texas Department of Water Resources in Kilgore, Texas.
- Louis F. Bonner** (BS '32) has retired from Humble Oil. "Spend most of our summer on our place in New Mexico on the Pecos River, also boating along Texas, Louisiana, Mississippi, Alabama and Florida coasts. We run registered Brahman cattle on our ranch in Lufkin, Texas."
- John F. Bookout** (BS '49, MA, '50) is president and chief executive officer of Shell Oil Co. in Houston.
- Clint Booth** (MA '56) is president (owner) of Booth Energy Co. in Dallas. "Always enjoy visiting with UT friends. Looking for good drilling and production deals. Now have two daughters working with me."
- Silverio Bosch** (BS '74, MA '75) is an independent geologist in Corpus Christi. "Having a ball prospecting for oil and gas. Doing underwater geology?? in such harsh places as Cozumel and Cayman Islands. Ran a second marathon in hilly Dallas in 3:19:20 (Beat that Ken Nemeth!)."
- Douglas L. Bostwick** (MA '53) is a geological associate for Exxon Co., USA in New Orleans. "After 9½ years of living overseas (3½ years—Singapore and 6 years—Kuala Lumpur, Malaysia) we are back in the states living in Mandeville, Louisiana. A great place to live. I am in the joint interest group. Exxon is very interesting."
- Walter A. Boyd, Jr.** (BS '53) is senior reservoir geologist for Columbia Gas Transmission Corp. in Houston. "New horizons in view—oldest son, Drew, is now a lawyer, youngest son, David, is in his last year of college. Retirement is just around the corner and Dot and I are looking forward to traveling."
- Walt V. Boyle** (BS '54, MA '55) is an exploration geologist for Shell Western Exploration and Production, Inc. in Houston. "'Prospecting' in the Permian Basin of West Texas and New Mexico."
- Richard G. Bozanich** (MA '78) is a project geologist for Amoco Production Co. in Houston. "My wife, Doris, is expecting our second child in July. Our son, James, age 2½, is doing fine and changing every day. I am now working the East Texas area after previous assignments during the past 18 months in the Appalachian Basin and Michigan Basin."

- Robert W. Bradley, Jr.** (MA '56) is a consulting geologist in New Orleans. He says, "I am spending about 100% of my time mapping the Smackover formation in Alabama and Florida, which is as it should be. After all, I was introduced to this old world 13 miles southeast of Smackover, Arkansas."
- William A. Bramlette** (MA '34) is retired from Exxon and living in Houston. He is "trying to understand what a grandson does in designing computer-aided engineering software—times do change."
- Robert F. Brandt** (BS '57) is a senior geophysicist for the Williams Exploration Co. "Still doing geophysical interpretation on the Texas Gulf Coast and East Texas for Williams Exploration in Houston."
- Tom Breedlove** (BS '54) is a geologist for Marathon Oil in Houston.
- Bill Brenner** (BS '58, MEd '60) is director of tennis in Atlanta.
- Larry D. Brogdon** (BA '74) is a partner in the Alamosa Oil and Gas Corp. in Fort Worth. "I organized Alamosa Oil and Gas in fall 1983. I am active in exploration and production in the north Texas area."
- Ken Brook** (BS '67) is president of Desert Ventures, Inc. in Reno. He is still consulting in mineral exploration throughout the western US. "As always, I am hoping for higher gold prices as there seems to be some strange correlation between job frequency and the price of the yellow metal. Maria and Sarah are doing fine."
- C. Elmo Brown** (BA '76, atten. '76-'79) is a geologist for Placid Oil Co. in Denver. "I am still working for Placid Oil Co. and all of its associated entities with responsibilities having been shifted to the Paradox Basin and the Wyoming thrust belt. As usual, I'm recovering from another knee surgery, but the biggest shock, at least to the people that knew me in school, is my marriage to Kathy in March. The occasion was well worth the wait."
- Thomas E. Brown** (BS '56, MA '58, PhD '63) is retired, living in Fort Worth. "Have had two brain operations and now have a malignancy. Feeling fine—but wish that I could write (gooder—for those of you who read my book)."
- George S. Brownwell** (BS '52) is an independent geologist/geophysicist living in Fort Worth.
- Wallace E. Brunson** (BS '42, MA '54) is an independent geologist in Houston. He says, "I am enjoying retirement with geology as a 'hobby'."
- Julius A. Buchanan** (BS '41) is retired and living in Tyler, Texas. "Still retired and still having a great time looking up my ancestors—I am amazed at how busy I am doing nothing."
- Thais Jeanne Bullard** (MA '51) continues to live and work in Taos, New Mexico.
- Claude M. Burnett** (BS '51) is a consulting geologist in Dallas.
- Hal H. Bybee** (BA '41) is a geological consultant in Austin. "Retired to Lakeway on August 1, 1984. We are enjoying every minute of it. Sally and I returned April 28, 1984 from a People to People International Citizen Ambassador Program to China (3 weeks). It was a petroleum geologist delegation led by Jim E. Wilson, past president of AAPG. An excellent trip but hard work."
- Robert W. Bybee** (BA '41) is a petroleum exploration consultant in Houston. "Spent most of the month of April 1984 in China as guest of PRC's Ministry of Petroleum. The group of 19 US geologists had many interesting discussions with our Chinese counterparts in north, central and south China. A great trip."
- William M. Byrd** (BA '54, BS '56, MA '58) is a computer geologist for Exxon USA in Houston. "Continuing assignments with computer applications to production geology."
- Jim Byrne** (PhD '75) is a consulting geologist in Houston.
- Warren J. and Susan K. Cage** (BS '51; BA '50) have both retired from Gulf. They have begun a new life in the Texas hill country (in Boerne) and plan to begin consulting as soon as they are settled.
- Roger Q. Callaway** (BS '77) is a geologist for Tenneco Minerals in Carson City, Nevada. He says, "There's gold in them there hills. It's still in them there hills. '84 is the year for the big discovery—I hope."
- Alvin Candela** (BS '41) is an independent geologist and semi-retired in Galveston. "I get amazed at the large number of 'oil experts' that are seeking jobs in the Houston area. Even 'executives' are affected by supply and demand. I saw it in the 1950s—1960s and now in the 1980's; it is a continuous cycle."
- Joe Cannon** (BA '27) is self-employed in San Angelo. "For health reasons I gave up active consulting in 1977. I keep up interest in petroleum activity by taking interests with others in drilling wells."
- W. Henry Cardwell** (BA '38) is a consulting geologist in Houston. "I am working up a few deals, doing some consulting and not playing nearly enough golf. Always enjoy visiting with UT friends."
- Marvin T. Carlsen** (BS '52) is a geologist—mudlogger for the Advance Consultants Corp. in Midland. "I went on partial retirement in February 1984 at age 67. Will occasionally work request wells. I spend most of my time rejuvenating my house and doing organic gardening, etc. Best regards to all my friends and faculty members."
- A. T. (Toby) Carleton** (BS '51, MA '52) is vice-president and Western Division Manager for the Pogo Producing Co. in Midland.
- Royce P. Carr** (BA '74, BS '76) is president of Humble Resources Co. in Huntsville, Texas. "Deborah and I still live in Huntsville. Last year my partner and I started our own oil and gas exploration and production company. Our second child is scheduled to arrive at the 'Carr residence' in December."
- Ralph V. Carson, Jr.** (BS '55) is coordinator of accounting policies and budgeting for Conoco, Inc. in Chadds Ford, Pennsylvania.
- "After ten years of the good life in Connecticut, we moved to a new home in southeastern Pennsylvania last fall. I now work in Wilmington, Delaware where Conoco's parent company, Dupont, can keep a close eye on me."
- Robert D. (Bob) Carter** (BS '48, MA '48) is an area geologist for ANR Production Co. in Houston. "We were looking forward to retirement in Austin but it's being Houstonized."
- Jack C. Cartwright** (BS '51, MA '55) and his wife, Barbara, work together running the family business and drilling some producing and some dry holes. Their last child married in May. They now have 5 grandchildren and their youngest daughter is expecting twins in October.
- Dwight E. Cassell** (BS '54, MA '57) is exploration manager for the McGowen Exploration Co. in Houston.
- Charles A. Caughey** (BS '69, MA '73) is exploration manager for the Houston Division of Inexco Oil Co. "1983 was a year of disasters (tornado, hurricane, freeze) and a slow time in this corner of the oil patch. 1984 started much better with milder weather and a couple of successful wildcats."
- Ralph S. Chamness** (BS '57) is chief geologist for the Texasgulf Chemicals Co. in Aurora, North Carolina. He is geologizing fertilizer and industrial minerals.
- Joe A. Champion** (BS '39) is retired and living in Brownsville, Texas.
- Walter Chatham, Jr.** (BA '48, MA '50) is retired in Mineral Wells. He says hello to everyone again.
- Tom H. Chestnut** (BS '59) is sales manager for Texas Industries, Inc. in Arlington, Texas. He is still selling rocks to the construction industry.
- C. A. Chimene** (BS '50) is vice-president of geology operations for Florida Exploration Co. in Houston. "1983 was a good year with the UT Centennial, a great football season and the last of three sons graduating from UT. Thanks for the memories."
- J. B. Chimene II** (BS '79) is Exploration Geologist for Gulf Oil Exploration and Production Co. in Houston. "Will present my thesis at GCAGS this fall. I'm still waiting to see what follows the merger of Gulf and SOCAL."
- Joe Christie** (BS '58) is president of Christie Energy Co. in Austin.
- Rubie Vaughan Christner** (BA '29) is self-employed in Shamrock, Texas.
- Stephen E. Clabaugh** (BS '40, MA '41) is retired and Professor Emeritus in the Department of Geological Sciences at the University of Texas at Austin. "Pat and I are enjoying the visits of children and grandchildren and traveling on our own. We plan to see Rome, Pompeii, Sicily and ancient Carthage in September."
- Uel S. Clanton** (BS '55, MA '60, PhD '68) is a geologist for NASA at the Johnson Space Center in Houston. "Still chasing cosmic dust. The rock hammers sure get small when

your average 'outcrop' is only 10 to 15 mm in diameter. Son Scot begins his senior year at UT Arlington, another geologist."

Joseph C. Clark (BS '57, MA '59) is visiting professor of geology at Indiana University of Pennsylvania. He will be teaching petroleum geology again this fall at IUP and will continue on California Coast Range problems with the USGS. He presented the results of a three-year study of the San Gregorio fault at the recent Pacific Section AAPG-SEPM meeting in San Diego.

Thomas P. Clark (MA '72) is senior hydrologist for the Minnesota Pollution Control Agency in Roseville, Minnesota. "Still championing the cause of ground water in the 'Land of 10,000 Lakes.' I helped organize the Minnesota Ground Water Association in 1983 and recently co-authored a report, 'Ground Water in Minnesota—A User's Guide to Understanding Minnesota's Ground Water Resource.' On the home front, Emily (9) and Amy (6) keep Cindy and me busy."

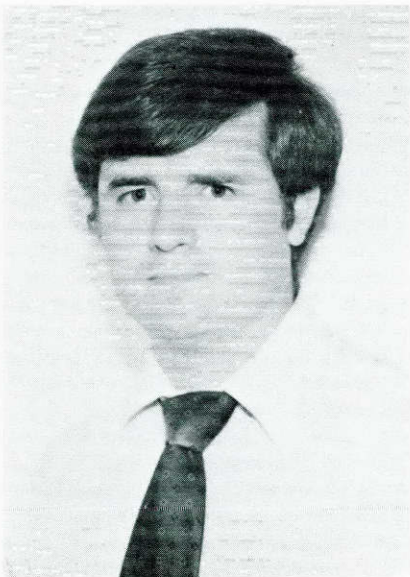
William G. Clarkson, Jr. (BA '37) is semi-retired and does some consulting in Midland.

Ted Cleaves (BA '60) is a family physician in Corpus Christi. "Still doing family practice—up to my elbows in coughs, colds and runny noses. Sometimes I wish I were wandering in the desert again with Jim Underwood gathering ammonites."

George H. Clements (BA '22) is retired in Denton. He enjoys the *Newsletter*.

Robert Cobb (BS '77, MA '80) is Geologist III for the Sohio Petroleum Co. in Dallas. "The good Lord has been gracious to one such as me. I am still single and will be moving to Coppell, Texas this May."

H. Grady Collier, Jr. (BS '49) is an independent geologist in New Orleans. "After almost 30 years in New Orleans, I'm enjoying the city and Louisiana geology more than ever. I extend an open invitation to all classmates to drop in when in the city."



Robert C. Cobb

Ann Collins (MA '82) is a geologist for Arco Oil and Gas Company in Houston.

Bryan D. Collins (BS '50) is retired in San Antonio. "Enjoyed the 100 year celebration and seeing the new geology building for the first time. Also, enjoying retirement, but I still can't find much free time."

John D. Cooper (MA '64, PhD '70) is professor of Geological Sciences at California State University in Fullerton. "Research on Lower Paleozoic carbonates in the southern Great Basin is progressing well, and this year I received two awards from the University for teaching. My wife, Nancy, has become quite the soccer player in the Orange County Women's League and son Randy is starting pointguard as a sophomore on his highschool basketball team. Chaska, 5, starts kindergarten this fall and Zachary, 7, is a budding gymnast. We hope any of you traveling out our way will stop by to see us."

Mary Beth Cooper (BA '66, MA '69) is exploration geologist for Lear Petroleum in Denver. "My news for this year is my marriage October 15 to Ted R. Fons. He's a consulting geophysicist who owns his own company—Excalibur Geophysical Consultants. I'm delighted to be married—still Cooper though, I didn't change my name."

Larry Corbin (BS '76) works for F. F. Foster & Associates in Houston.

Frank G. Cornish (MA '75) is district exploration geologist for Texas Oil and Gas in Corpus Christi. He is currently exploring carbonates at Edwards and Sligo Shelf Edge. He has two children, ages 2 and 5. He is trying to plant roots in Corpus.

Augustus S. Cotera (BS '52, MA '56) is assistant to the president at North Arizona University in Flagstaff. "Still working in administration. My daughter, Carol, graduated from UT in May 1983. My daughter, Angela, will be a senior in engineering at UT in 84-85. Betty Lou is still teaching. The years do go by."

R. Wilson Cozby, Jr. (BS '60) is a pediatric dentist in Tyler, Texas. "Ann is still single, Ray (oldest) is using his UT training and working as an independent geologist in Tyler. Chris is at UT and Drew and Gleith are in high school."

William W. Craig (PhD '68) is a professor in the Earth Sciences Department at the University of New Orleans. "I am enjoying my year as president of the New Orleans Geological Society. All is fine with the family."

Arthur S. Cramer, Jr. (BS '57) is consulting exploration geophysicist for Texaco USA in New Orleans. "Daughter Joan and her husband, Greg, have had their first child. They named her Kristine Reeves (7 mos.) Son David graduated from LSU in petroleum land management. He is now land rep for Texaco."

Weyman W. Crawford (BS '50) is executive vice-president for Elf Aquitaine Petroleum Co. in Houston.

John C. Crowell (BS '39) is professor of geology at the University of Southern California in

Santa Barbara. "I am continuing my geological travels: was the Alex. du Toit Memorial Lecturer in South Africa last year, and I am soon traveling to Australia to give short courses for the Petroleum Exploration Society of Australia. I am also continuing my activities for the National Academy of Sciences; teach graduate students and supervise several PhD and MA students."

Steve Cumella (BS '77, MA '81) is a geologist for Chevron, USA in Denver.

Russell W. Cumley (BA '31, MA '31) is retired and living in Austin.

Hugh W. Curfman (BS '49) is an independent geologist in Lafayette. "Still putting together 'good' drilling deals in Louisiana. One son is doing land work in East Texas. My only daughter is getting hitched in September. I've got to sell another deal quick."

Thomas B. Curlee (BS '50) is a petroleum consultant in Oklahoma City. "I was in Midland last spring, the first time in 20 years. I enjoyed visiting with UT exes. I missed San Antonio this past spring and visiting with my old UT friends. I hope to see you in New Orleans."

David K. Curtice (BA '53) is chairman and chief executive officer for Sigmatex, Inc. in San Antonio. "I spent October '83 through February '84 setting up a 2,000 ton per day gold mine in Arizona. I am now mining and importing gypsum from Mexico."

Harris P. Darcy (BS '51) is an independent geologist in Houston. "The Israel well is now at T.D. 21,428 feet WOG (Waiting on God). It has two fish stuck in the hole and a 100 sack cement plug in the long string. I am waiting for God to do a Red Sea type completion."

Larry J. Darnall (BS '58) is president of Darnall Petroleum, Inc. in Dallas.

Morgan J. Davis, Jr. (MA '53) is a geological consultant in Houston.

Richard A. (Skip) Davis, Jr. (MA '61) is associate dean and professor of geology at the University of South Florida in Tampa. "After 11 years in administration (9 as chairman; 2 as associate dean) I'm going back to science full time. I will be on sabbatical '84-'85 at Duke and UNC-Chapel Hill writing papers, proposals and a book and doing a little teaching. Daughter Laurie is graduating from TCU in August '84. I'm proud to have UT using my *Depositional Systems* book."

Ross Meyer Davis (BS '80, MBA '82) is a geologist at Davis Brothers in Houston.

William H. Davis (BS '41) is retired and living in San Antonio.

Leslie A. Dedeke, Jr. (BS '55) is an area geophysicist for Union Oil Co. of California in Houston.

Frederik E. Dekker (MA '66) is exploration manager of Union of Colombia, Ltd. in Los Angeles. "I am in charge of Union's exploration program in Colombia, South America, and make numerous trips to Bogota. I am enjoying the California lifestyle but hope to get back overseas soon."

- George P. Derry, Jr.** (BS '49) is a consulting geologist in Corpus Christi. He is still looking for the ever-elusive major oil or gas field. "All the family is doing great with 4 grandchildren going strong."
- Kevin P. Dickson** (BS '82) is a lab technician for Phelps Dodge Cooper Products in El Paso.
- Jane Ormond Dinkins** (BS '38) is retired and living in Houston. She is still raising registered red angus cattle on her farm near Chapel Hill.
- James E. Dobkins, Jr.** (MA '68) is geophysical manager for Exxon USA in Houston. "The federal government's area-wide sales in the offshore surely are keeping us busy."
- H. L. (Dutch) Dodd** (BS '56) is district geologist for Sonat Exploration Co. in Houston.
- John David Doehring, Jr.** (BS '82) is production geologist for Exxon Co. USA in Tyler.
- George A. Donnelly, Jr.** (BS '40) is president of the Eastland Oil Co. in Midland. He is still trying to find oil and/or gas in West Texas and New Mexico.
- Gene C. Doty** (BS '54) is a retired hydrologist from US Geological Survey WRD living in Las Vegas. "I hung up my witching wand December 30, 1983. I am still working part-time at the same old place."
- Jim Doyle** (BS '73, MA '76) is a geological consultant for Scientific Software—Intercomp in Denver.
- Larry Doyle** (BS '50) works for the US Department of Interior in Washington, D.C. "I have joined the office of the Secretary of the Department of Interior. I am still in waste management. I am developing a way to assess damage by chemical wastes to ground water and mineral resources. I am going to the USSR for the 27th IGC in August."
- Ralph C. Duchin** (MA '55) is a consulting geologist in Houston. He is still associated with Bob Zinn at Zinn Petroleum Co.
- William E. Dunaway** (MA '62) an independent geologist in Kingwood, Texas, says, "I have finally gone into business for myself."
- William R. Dupre** (BS '68, MA '70) is an associate professor in the Department of Geological Sciences at the University of Houston.
- Mark D. Durio** (BS '79) is a geologist for Sohio Petroleum Gulf Coast in Houston. "I left Cities Service International after 3½ years of work on the China Project."
- Connie Mayes Dyer** (BA '58) is a homemaker in Houston. "This is a banner year. Kelly graduates from UT in May (BS in Secondary Education); Jeff graduates from Texas Tech in August (petroleum land management). John will be 5 in September and will be in preschool 5 days a week. Byron's company is doing a joint venture with Norcen, a Canadian Corp. I just keep everyone organized."
- Fred A. Ealand** (BS '48) is exploration coordinator for Exxon USA in Houston. "Offshore leasing and drilling activity is picking up. Deep water frontiers in the Gulf hold an exciting potential—I'm glad to be part of the effort."
- Charles R. and Linda C. Ehlers** (BS '78; BS '80) Charles is a geophysicist and Linda is a geologist. Both work for Placid Oil Co. in Dallas.
- G. K. Eifler, Jr.** (BA '29, MA '30) is a consultant working in Austin.
- Ruben Ellert** (BS '50) is a geophysicist with Coastal Oil and Gas in Corpus Christi. He is in the process of moving to Corpus Christi. He enjoys the *Newsletter* very much.
- Ab R. Ellis, Jr.** (BS '50) is district development geologist for Sohio Petroleum Co. in Midland. "Activity in the Permian Basin is picking up and it looks like *good times ahead*."
- Patricia Mench Ellis** (PhD candidate) is staying home in Katy, Texas trying to finish up her dissertation.
- Ralph I. Ellsworth** (MA '49) is self-employed in Austin. "We have just moved to Lakeway and it is great to be in the Austin area again."
- Benjamin M. Elms** (BS '49) is a retired petroleum consultant, in Brenham, Texas. He has retired in the country, has seven grandchildren and is enjoying life.
- Joe Elo** (BS '56) is an independent geologist living and working in Fort Worth.
- Peter A. Emmet** (MA '83) is a geophysical interpreter for Aero Service Division in Houston. "I married Lisa Ann Richards (BS Geology, '81) in August 1983. During the job crunch I managed to find work as a geophysicist (of all things) but I'm doing structural interpretation from magnetic and gravity data, which I like."
- Franklyn R. Engler** (BS '58) is living in Pittsburgh. "I enjoy reading the *Newsletter*. Keep up the good work."
- James L. (Jim) Eppler** (BA '43) is an independent geologist in Dallas. He is still tracking those elusive hydrocarbons and trying to grow old gracefully in Dallas.
- Al W. Erxleben** (MA '74) is geological supervisor for Tenneco Oil Gulf Coast Division in Houston. "I am supervising geologic studies for the entire Gulf Coast, with concentration in south Texas. Charlotte, Jason and our new son, Devin (born April 6, 1984) are all fine."
- Lawrence E. Ethridge, Jr.** (BS '47) is living and working in Corpus Christi, and is still looking for oil and gas. He is drilling with a group—he sees several classmates almost every day at coffee time. He is active on the Development Board at UTMB, Galveston.
- James P. Evans, III** (MA '65) is president of Orleans Exploration Co., Inc. in New Orleans.
- Norman Ewbank** (BS '43) is senior staff geologist for Cities Service Oil and Gas Corp. in Midland. "There have been a lot of fascinating transmogrifications around Cities Service in the past year, most of them purely accidental."
- George H. Falk** (BS '57) is an independent geologist and landman in Seguin, Texas. "Still enjoying life on the lake, waiting for the oil business to pick up."
- J. A. (Tony) Fallin** (BS '69) is editor of *Petroleum Frontiers* in Denver. "In lieu of settling down—and at family's urging—I've accepted a job with geological applications and some political clout."
- Thomas E. Fanning** (BS '56) is Houston division exploration manager for the Marathon Oil Co. "I moved from the offshore district into the Division job last summer; it's great to get a job change and not have to buy another house."
- Richard Farrand** (MA '84) is a geologist for Primary Fuels, Inc. in Denver.
- Steven R. Fekete** (BS '82) is a geologist for R. E. Keith, Inc. in Garland, Texas. He is continuing his graduate studies at UT Dallas.
- William M. Felknor** (BS '76) is vice-president of Recreational Products Brown Group in Bedford, Pennsylvania. "I am busy traveling coast to coast manufacturing everything from boat masts to Gerry ski wear. Gratia is getting a Masters at OU and Becky is at Clemson. I can't convince them to stay in the Pennsylvania mountains."
- Murray Felsher** (PhD '71) is publisher for the *Washington Remote Sensing Letter* and president of Associated Technical Consultants in Germantown, Maryland. He had a major consulting job this year with Eastman Kodak Co. to aid EK in their bid to purchase US government civilian remote sensing satellite system (Landsat, et al). "The newsletter continues to do well, and my family thrives. Our best to all."
- Kathy Fernald** (BS '82) enjoys working as a geologist for Sonat in Houston.
- Gail L. Fisher** (BS '82) is a graduate student in geology at LSU in Baton Rouge.
- Walter M. (Dub) Fitzgerald, Jr.** (BS '53) is senior geologist at Temple-Eastex Inc. in Diboll, Texas. "Still knocking sparks out of the Yegua rocks around Angelina County. Doing surface geology on the Diboll golf course and an occasional field trip to Lake Sam Rayburn."
- G. E. Flack** (BS '57) is manager of production geology in New Orleans. "We in the south and east Offshore Division of Gulf Corp. are waiting to become part of Chevron."
- Ted Flanigan** (MA '80) is exploration geologist for Mobil Oil in Houston.
- Henry Fok** (MA '72) is self-employed in Kailua, Hawaii.
- William Laird Fowler** (BA '74) is park superintendent III at Brazos Bend State Park in Needville, Texas. "I have been busy opening the newest state park southeast of Houston. I enjoy collecting minerals from worldwide localities."
- Hewitt B. Fox** (BA '47, BS '48, MA '48) is an independent oil and gas producer in Corpus Christi. He is looking forward to traveling to Geneva in July after which they will tour Leningrad and Scandinavia.
- J. H. Frasher** is president of Teledyne Exploration Co. in Houston.
- William D. Frazell** (MA '35) is president and exploration manager of W. W. F. Oil Corp. in Lafayette, Louisiana. "I am still looking for oil in south Louisiana with time out for a pleasure trip now and then."

- Paul S. Freeman** (BS '60, MA '65) is a geologist in Houston.
- Tom Freeman** (PhD '62) is professor and chairman of the Geology Department at the University of Missouri in Columbia. "Son Tom is a geologist with Tenneco; son Rob has BS in geology but is now in law school; Peg is teaching third grade; UMC Geology Department is coming up with plenty for me to do."
- Annabelle Bannahan Friddle** (BA '45) is in Aztec, New Mexico. She looks forward to the *Newsletter* each year.
- Jack Q. Frizzell** (BS '50) is president of Enrich Oil Corp. in Abilene. "I'm finding more oil and gas and I keep thinking we're doing better—until the time comes to pay costs and taxes. My family is growing with 5 grandchildren now—all in Abilene."
- Donald W. Frye** (BS '55) is manager of geophysics data processing and acquisition for Tenneco Oil Co. in Houston.
- Henry L. Fulghum** (MA '50) is a consulting geologist in Jackson, Mississippi. "Nothing is really new. Most of my activities have been on hold pending improvement of the economy."
- Gay L. Gallia** (BA '74) is senior attorney for United Gas Line Co. in Houston. "We now have three children with the most recent born in September '83. Martha is opening an optometric practice in Kingwood this year."
- Iacopo Gambini** (BS '58) is manager of General Pipe Service in Bogota, Colombia living in Friendswood, Texas. "I moved the family back to Texas last July and we're enjoying it very much."
- L. E. (Ed) Garner** (BS '62, MA '73) is a geological consultant in Austin. "The consulting business has been good to me so far; I enjoy the variety. Also, look forward to getting by UT and the Bureau to say hello to old friends."
- Paul B. Garrison** (MA '79) is a geologist for Cenex in Billings, Montana. "I am trying to find partners for northwest Montana overthrust acreage and well; I am also exploring for muddy oil in the Powder River and Wind River basins in Wyoming."
- Nathan Bennett Gary, Jr.** (BA '56) is an attorney in Bowie, Texas.
- A. J. Garza** (BS '78) is exploration geologist for Mobil Oil Corp. in Denver.
- Cameron H. Gates** (BS '60, MA '62) is president of C. H. G. Exploration, Inc. in Corpus Christi. "I am just getting started with my exploration consulting firm and I am looking forward to a successful continuation in the search for oil and gas."
- Leroy Gatlin** (BS '48, MA '50) is an independent geologist in Oklahoma City. "I am enjoying my new office and the fact that money is chasing deals again. Number one son finished 6th grade. Oldest daughter had twins, middle daughter is working and making more money than I ever did when working for the other fellow. Youngest daughter is singing up a storm."
- Fred Marion Gibson** (BA '51) is assistant vice-president for the American Founders Life Insurance Co. in Austin.
- Leslie W. Giddens, Jr.** (BS '54, MA '57) is an independent geologist in Corpus Christi. He is keeping busy with drilling prospects in south Texas.
- Jerry R. Gips** (BS '70) is president of Tourmaline Oil Co. in Houston. "No news. Just the same old thing. Oil field here, gas field there. I do enjoy reading the *Newsletter*."
- Paul Giraudin, Jr.** (BS '48) is an independent geologist in Corpus Christi.
- A. W. (Bill) Glover** (BS '56) is senior vice-president of exploration for the Kimbark Oil and Gas Co. in Denver. "We are still in Denver, busier than ever, drilling lots of wells throughout the USA. I'm always glad to see folks from UT."
- Georgette Covo Goble** (BA '44) is a homemaker in Waco. "In May 1984 my husband and I enjoyed a trip to the Orient. Our grandchildren continue to give us much pleasure."
- Lisa (Rusty) Goetz** (MA '77) is project supervisor, exploration projects for Conoco in Midland. "I transferred from the Woodlands, Houston to Midland, on June 1, 1983. I now supervise a group responsible for frontier oil exploration in Trans-Pecos Texas, New Mexico and Arizona."
- W. L. (Boots) Goode** (BS '53) is a consulting geologist in Midland.
- Edwin R. Goter** (MA '74) is senior geologist for Shell Western Exploration and Production, Inc. in Houston. "Things remain stable—same wife, same house, same job. I am now working California and get out there regularly. Climate, ocean and rocks are all tops. (Can we move Houston there?)"
- Scott B. Gorham** (MA '81) is a senior geologist for Exxon USA in Denver.
- Richard E. (Dick) Grant** (PhD '58) is senior geologist and curator at the Smithsonian Institution in Washington, D.C. "I attended the Carboniferous Congress in Spain (field trips also in Portugal) this past September, and hope to attend the International Geological Congress in Moscow this August. More significantly, I hope to visit Marathon in May, and deliver a lecture at Sul Ross in Alpine."
- Donald M. Gray** (BS '51, MA '53) is senior staff geologist for Shell Western Exploration and Production Co. in Houston. "After too many years working Canada, S.E. Asia, Africa, Oklahoma, Mexico, Montana, and Wyoming—all those exotic places (and during which time all four kids earned degrees at UT) I am back to my first love—the Gulf Coast Tertiary."
- Robert W. Grayson** (BS '48) is a consulting geologist in Austin. "My wife of 40 years, Dorothy Newnam Grayson, BS 1943, died March 28, 1984."
- Willard R. (Will) Green** (MA '55) is the division exploration manager for the Energy Reserves Group, Inc. in Midland. "1984 looks like a good year with three exploratory well discoveries in the first quarter."
- Charles R. (Dick) Grice** (BS '46) is a geological consultant in Midland. "I have retired from Pennzoil Co. and have opened my own office. Ann and I are happy to be back in Midland."
- Robbie Gries** (MA '70) is a consulting geologist in Lakewood, Colorado. "We rafted the Grand Canyon—something every geologist should do. Business is good and I've joined the computer generation. My daughter, Lynn, (13) is already better than I am."
- Ariel Dale Griffin** (BS '57) is a geophysicist living in Houston. He has been disabled by a stroke since 1976.
- Thomas W. Grimshaw** (MA '70, PhD '76) is manager of the policy and environmental analysis division of the Radian Corp. in Austin. "I have held my present position since January 1982. Besides personnel management, I have been deeply involved in hazardous waste site investigations (many for the Superfund) and ground-water contamination studies."
- Robert Gross** (BS '63, MA '65) is vice-president and chief geologist of Lear Petroleum in Dallas.
- Roy H. Guess** (BA '39, MA '40) is a consulting geologist in Casper, Wyoming. "Can you imagine 3 feet of snow on May 2, 3 and 4, 1984? That's what we had at the ranch near Buffalo, WY. 1983 was a good year with two discoveries which may lead to many wells. Warmest greetings to all my friends."
- William R. Gumert** (MA '65) is a geophysicist for Carson Geoscience in Perkasio, Pennsylvania. "Since last reporting I have finished airborne gravity surveys in the North Slope, Santa Maria Basin, Morocco and the Bahamas. One system is heading for New Guinea."
- Mehmet Gurel** (MA '56) is president of the inspection committee for the General Directorate of Petroleum Affairs of Turkey in Ankara. "I am working in the same office. My older son, Musot, completed his military service last month and started to work this month in Cukurova Holdings. My younger son is now a senior architectural student in the Middle East Technical University. Best wishes to everyone."
- Albert Haertlein** (BS '78) is exploration geologist for Houston Oil Fields Co. in Houston.
- K. F. Hagemeyer, Jr.** (BS '49) is a petroleum exploration consultant in Houston. "Exploration effort has slowed considerably. I am reviewing my old prospects in Louisiana in an attempt to isolate new fault blocks and/or deeper objectives. Karl III is completing his first year as a resident surgeon at Scott and White in Temple. Jeannie graduated from UT with a BS in communication disorders and is now enrolled in UT Medical School in San Antonio. Her goal is a degree in physical therapy. Dorothy is active in PEO and the HGS Auxiliary."
- W. Douglas Hall** (MA '74) is president of Hall Southwest Water Consultants, Inc. in Austin. Doug's company is expanding rapidly.

- C. Clyde Hamblin** (BS '50) is an independent petroleum landman and producer in Midland. "I enjoy working as much as I wish. Survived the 'crash'."
- Louis H. Haring, Jr.** (BS '38) is an independent geologist and president of Haring Energy Co. in San Antonio. "I am continuing to drill a few wells each year."
- Jess L. Harkness, Jr.** (BS '60) is a stockbroker and manager of Eppler, Guerin and Turner in Corpus Christi. "I am ranching for a hobby, raising Simmentals with my wife, Jan. Mollie is attending Texas A & I, Barry is a computer programmer/student at Del Mar College, and Mike graduates in spring 1984 to attend NTSU in the fall."
- Wiley B. Harle** (BS '50) is vice-president and manager of exploration for Onset Petroleum Corp. in Houston. "It's hard to believe that 34 years have gone by since leaving school."
- H. Lee Harvard** (BA '55) is president of Harvard Petroleum Corp. in Roswell, New Mexico. "We have been fortunate. Business has not slowed down for us; in fact we are looking for 2 geologists. Joanne (UT class of '55) is busy as president of Roswell Cancer Society. Jeff graduates with a petroleum engineering degree from UT this year and Alan is still at SMU."
- George M. Harwell, Jr.** (BS '57, MA '59) is executive vice-president of Bayleaf Ltd. in Houston. "After consulting for the past 9 months, I feel very fortunate to be associated with John L. Loftis III and the professional staff at Bayleaf, Ltd. This is a new business venture which promises to be exciting and rewarding."
- Eric K. Hass** (BS '78) is exploration geologist for Mobil Oil in Houston.
- Glenn D. Hatcher** (BS '73) is an exploration geologist in Houston.
- Edward F. Haye** (BS '51) is president of Benchmark Exploration, Inc. in Houston.
- Hugh Hay-Roe** (MA '52) is a consulting geologist in Houston. "Through a long-term association with Align Energy, Inc., I've at last succeeded in cutting back the overseas travel (85,000 miles last year); even getting to dabble in the Texas oilpatch a bit. Number one son is a senior at UT; he still maintains a 4.0 grade point average."
- John B. Hearn** (BS '52) is a geologist in Houston. "I, like everyone else, am waiting for the surplus gas bubble to bust."
- Arch H. Heim** (BS '50) is a research engineer for Schlumberger-Doll Research in Ridgefield, Connecticut. He lives in Danbury.
- Cornelia Henderson** (BS '81, MA '84) is a geologist for Henderson Exploration in Corpus Christi. "I start law school at Tulane in August, 1984."
- John D. Henderson** (BS '37) is retired and living in Dallas. "I took early retirement from the oil industry in 1968. Since that time I have been very busy with west Texas ranch and Dallas rental properties."
- Curry Hendricks** (BS '56) is retired and lives in Horseshoe Bay.
- Bob Henningsen** (BS '57) is an associate professor of geology at Tarleton State University in Stephenville, Texas. "My wife, Sammye, is still running her candy store. We are proud first-time grandparents of Corbin Craig. Tarleton degree program in geology is going strong."
- Larry R. Hensarling** (BS '56) is president of Tee Oil, Inc. in Lafayette, Louisiana.
- Reid Hensarling** (MA '81) is a geologist for Tee Oil, Inc. "Working for an independent oil company has been exciting and challenging. My years at the University have been invaluable to me."
- Charles H. Hightower, Jr.** (BS '56) is an independent geologist in Lafayette, Louisiana.
- Janice L. Hill** (BS '79) is a geophysicist for Chevron USA in Denver. "John and I are really getting domestic these days with our home in 'western Kansas' (Aurora, Colorado). We can give lessons on how to kill your lawn. We visited Taos last fall and Michael's Kitchen is just as good as ever."
- Nolan Hirsch** (BS '44) is president of MVC, Inc. in Midland. "Steady work, win a few, lose a few."
- Carroll Ann Hodges** (BA '58) is a geologist for the US Geological Survey of Menlo Park, California. "Coming back to earth after a dozen years in astrology has been enlightening—learning lots about ore deposits as titular head of minerals assessment project in Colombia. Back to Bogota in August to wrap it up. The big event of the year was Centennial Round-Up weekend back at UT—a wonderful occasion; being on the Commission has been a real high."
- F. A. (Fred) Hoeninghaus, Jr.** (BS '49) is a geophysicist for Exxon USA in Houston. "Looking forward to the usual fine *Newsletter* from Austin."
- Charles Wayne Holcomb** (BS '37) is retired and living in Columbus, Texas. "Hope to see 'three score and ten' this summer after heart surgery in April."
- Bill D. Holland** (BS '54) is executive vice-president for Pogo Producing Co. in Houston. "My daughter Krista should receive her BS in geology in August after the 660 field trip. She plans to attend the University of Arkansas for her Masters degree. The rest of the group is doing well and maintaining the status quo."
- H. W. Hollingshead, Jr.** (BA '57) is group vice-president of exploration and production for Tipperary Corp. in Midland.
- Clifford K. Holloway** (BS '50) is a consulting geologist in Amarillo. "Amarillo and the Anadarko Basin are still an exciting and pleasurable place to live and work. We try to keep the good climate a secret."
- James W. Hood** (BS '48) is a hydrologist for US Geological Survey, WRD in Salt Lake City. "Still plugging away at hydrology of consolidated aquifers in the upper Colorado River Basin. Hoping to retire soon after 37 years of government service."
- Ben P. Hooper** (BS '80) is a geologist for Gulf Oil Corp. in Kilgore, Texas.
- Edward Hooper** (BS '82) is a geologist for Texoil in Houston. "Come and visit."
- Lawrence E. Hoover** (BS '48) is an independent geologist in Corpus Christi. "I am still developing prospects in the Miocene to Cretaceous trends in south Texas."
- Richard Alan Hoover** (PhD '68) is senior research advisor for Exxon Production Research Co. in Houston.
- Joseph Hornberger, Jr.** (BA '29, MA '32) is retired and living in Houston.
- Charles M. (Skip) Hoskin** (PhD '62) is an associate research scientist for Harbor Branch Foundation, Inc. in Fort Pierce, Florida. "Having studied the top of a coral reef for my doctorate, it's fun to look at reef undersides from a plastic bubble research sub whizzing around at 2,000 feet down."
- G. B. (Bill) Howard IV** (BS '82) is a geologist for Tennessee Gas Pipeline in Houston.
- William P. C. Hudson** (BS '75) is president of Brahman Energy, Inc. in Corpus Christi. "Still wildcatting in deep south Texas. I took my 6 year old son, John, to South Africa last summer."
- Jack E. Hughes** (BA '48) is Gulf Coast offshore exploration manager for Enstar Petroleum in Houston. "Being for sale, Enstar is not long for this world. Too bad for it has been hard work, but fun. Jo and I are very excited—our son recently notified us we would become first-time grandparents in November."
- Jack T. Hughes** (MA '42) is professor of anthropology for West Texas State University in Canyon, Texas. "Things are looking up in these parts, but not too much, as in Austin, thank goodness. Glad to see more and more people discovering geoarcheology."
- Ed Hughston** (MA '50) is an independent geologist in Taos, New Mexico. "Involved in exploration in Texas, Oklahoma and Louisiana on a consulting basis with the DicoGroup, Inc. of Dallas and New York."
- Emmett Arl Humble** (BA '49, MA '51) is president of Esso Exploration, Inc. in Houston.
- W. Clay Hunter** (PhD '79) is manager of Strata Logik Operations in Denver. "As the oil industry becomes more aware of the value of reservoir quality analyses, we get busier and busier. We're also very involved in COST well and other Alaskan petrography."
- Elvin Millard Hurlbut, Jr.** (BS '43) is technical editor at the Johnson Space Center in Houston. "I have completed my fifteenth year at Johnson Space Center. I am working for Omniplan Corp. on Space Shuttle documentation. Virginia and I are OK. Hurricane Alicia ran us out of Webster; we are now living in Houston five minutes from work."
- Joe A. Hybner** (BS '52) is district geologist for TXO Production Corp. in Corpus Christi.
- Carl B. Irwin** (BS '39) is retired and living in Marble Falls, Texas. "Not much change. Number 3 son is finding geology work spasmodic at times."

- H. Gail Jacobs** (BS '83) is a geophysical assistant for Prakla-Seismos, Inc. USA in Houston.
- J. R. Jackson, Jr.** (MA '40) is consultant and director of Petroleum Information Corp. in Houston. "I was an honorary member of AAPG in '82. I retired from Exxon in '82 and am now a consultant for PI. I am enjoying part-time retirement, golf, travel (Australia, New Zealand). I am staying active in business and particularly enjoying 3 grandboys who live close by (ages 1, 2, 3) and spending more time with my wife and children."
- Otis L. James, Jr.** (MA '52) is self-employed in Gainesville, Texas.
- Gerhard C. J. Jansen** (MA '55) is vice-president of Middle East/Far East Operations for the Occidental Oil and Gas Co. in Bakersfield, California. "After almost 25 years abroad, it is good to be home again."
- Charles B. John** (BS '51) is a geologist for the Department of the Interior, Bureau of Land Management in Tulsa. "All onshore operations have been transferred from the USGS to the Bureau of Land Management; myself and 700 other personnel were affected. Duties, however, are the same."
- Charles G. Johnson** (BS '84) is a geologist for ITT/Eason Oil Co. in Houston.
- M. L. Johnson** (BS '50) is an independent geologist in San Antonio. "Mother Nature sure is tricky."
- John Edgar Johnston III** (MA '77) is chief economic geologist of the Louisiana Geological Survey in Baton Rouge. "I manage the energy and mineral resources division of the Survey and teach petroleum engineering at LSU. I raise and train Dobermans in my spare time."
- J. Phil Jones** (BS '64) is president of Classic Exploration Trades, Inc. in Oklahoma City. "Greetings from Oklahoma City. The Anadarko Basin is beginning to show some positive signs of life after the crash of 1982. It is very encouraging to see people beginning to explore for gas. Let's get rid of the Fuel Use Act."
- Richard D. Jons** (BS '56) is an independent geologist in Midland.
- Helmut W. Kasiske** (BS '54) is a geophysical consultant in Houston. "I am retired from Exxon and enjoying the new life."
- Edwin N. Kasper, Jr.** (BS '51) is a petroleum engineer/geologist in Houston. "Last year's stabilization in field prices for crude oil production is showing up in operations being undertaken all along the Gulf Coast Area. I am enjoying learning more of financing and lending with the International Group of CIBC related to energy projects. Significant Miocene/Pliocene reserves in the Federal Area and the Gulf of Mexico are being developed and brought on production by our clients."
- Ernst H. Kastning** (PhD '83) is an assistant professor in the Department of Geology and Geophysics at the University of Connecticut in Storrs. "My family and I continue to probe the origin of caves. This deep subject leaves us in the dark now and then, but we hydrogeologists hold our heads high, go with the flow, and muddle through despite pitfalls and blind avenues. Beneath the surface, it's one way of making a 'descent' living. We love New England but miss the wholesome Hill Country deep in the 'Karst' of Texas."
- Steven G. Katz** (PhD '75) is senior scientist at Owens-Corning Fiberglas Corp. in Granville, Ohio. "I am continuing to manage Owens-Corning efforts to explore new uses for its strategic raw materials, mainly in the area of borate minerals. Connie and I have moved into an old Victorian house that we have rehabilitated—it was fun but a never-ending project."
- Daniel N. (Dan) Keeler** (BS '80) is a geologist for Texas Gas Transmission Corp. in Houston.
- Kevin M. Kelly** (BS '83) is a graduate student at San Diego State University.
- Edward R. Kennedy, Jr.** (BS '48, MA '49) is a consulting geologist in Midland. "I am primarily interested in the Delaware Basin."
- Bob Kent** (BS '72) is vice-president of Underground Resource Management in Austin. "URM has grown from 3 in '78 to 40 in '84." The family has also grown for Bob, Suzie and Mitchell in '72 to include Elizabeth in 1984. Bob and his firm have been a big help to the Department's hydrogeology program.
- Allan R. Keown** (BS '58) is a handwriting examiner in El Paso. "Forgery is at an all time high—which means my business is good. The ball point pen still outdoes the gun for illegal money. More businesses are now hiring, for my employee handwriting analysis-business is coming back again."
- George L. Keppta** (BS '52) is senior exploration geologist for Rutherford Oil Corp. in Houston. "During the past year most of my exploration work was done in the Frio Formation of southeast Texas. Our youngest son married and our daughter is expecting her second child."
- Don Kerr, Jr.** (BS '60) is president of Kerr Construction Services, Inc. in Houston.
- Ralph S. Kerr** (MA '76) is senior geologist at Shell Oil Co. in Houston.
- Howard W. Kiatta** (BS '58) is an independent geologist in Houston. "I am continuing to explore for oil and gas in southeast Texas. Ada and the kids are doing fine. Two of the kids have finished college, two are still there, all at Texas Tech."
- Jerry S. Kier** (BA '66, MA '68) is senior staff geologist for Reservoirs, Inc. in Houston.
- Robert J. Killian** (BS '77) is a geologist for Mesa Petroleum Co. in Houston.
- Cynthia D. King** (BS '82) is a geophysical technician for Gulf Coast Geodata in Houston.
- Victor L. King, Jr.** (MA '57) is senior staff engineer for Shell California Production, Inc. in Bakersfield, California. "I am still adjusting to the California scene since moving to Bakersfield late in '83. After 15 years in New Orleans, the change is a big one. Denise and I have a new girl, Elizabeth, age 16 months. It's better the second time around."
- Robert G. Knabe** (MA '54) is a consultant in Houston.
- Jan Houston Knox** (BA '70) is a geologist for the Texas Department of Water Resources in Austin.
- Rick Kolb** (MA '81) is production geologist for Mobil Oil Exploration and Production in New Orleans. "I have left regional exploration and am now in production. Uncertainty over gas prices and demand are keeping drilling activity slow."
- Leo W. Konz** (BA '31, MA '32) is retired and living in Austin.
- Edwin K. Krause** (BS '49, MA '54) is senior paleontological associate for Arco Exploration Co. in Houston.
- J. David Krause** (BS '53) is owner of Dave Krause Pontiac-Toyota, Inc. in Denton. "The car business in Denton and the DFW area has been great—come see us. After 33 years Bessie and I now have a grandson—we're sure he will be a "T-Sipper."
- Jeff Kremer** (BS '79) is a partner in Kremer and Roberts Exploration Co. in Dallas.
- Ted B. Lacauff, Jr.** (BS '50) is an independent geologist in Midland. "I am still rocking around the headwaters of the Pecos in the summer and back to the drawing board the rest of the year."
- James L. Lamb, Jr.** (BS '56) is an independent oil and gas producer in Midland.
- Leon M. Lampert** (BS '51, MA '53) is vice-president and geologist for Dalport Oil Corp. "I am working south Texas and southeast New Mexico. Our youngest, Wayne, finished UT Law School in May '84. It seems like I have had an on-going 'working interest' in UT for 12 years, as all three children have graduated from there. Enjoyed seeing many UT alumni at the AAPG convention in San Antonio."
- J. Donald Langston** (BS '49) is retired and working as a consultant in Kailua-Kona, Hawaii. "I retired as vice-president for exploration of Exxon USA on September 1, 1983. I am busy trying to get a home built in Kona, Hawaii. I am staying active on the Geology Foundation and some industry activities."
- J. K. Larsen** (BA '40) is executive vice-president for Mesa Petroleum Co. in Amarillo. "After 44 years, the last 15 with Mesa, I plan to retire. I hope to continue to search for the elusive barrel."
- J. Earle Lawless** (BS '51) is exploration manager for Perryman OEG in Corpus Christi. "These last 16 years in south Texas have been good to me. We've helped balance the Anglo ratio, with 5 children and 6 grandchildren."
- Jeff Lawton** (MA '82) is a geophysicist for Conoco, Inc. in Ventura, California. "I left Exxon in February 1984 and moved to California with Conoco. I am working the Sacramento Valley gas fields."
- R. L. (Bob) Layden** (atten. '47-'48) is geological supervisor, South Texas District for Sun

- Exploration and Production Co. in Dallas. "Sun has a very active drilling program in south Texas. We are finding lots of good reserves. It's still fun."
- Bill Layton** (BS '81) is a geologist for Sun Oil Co. in Dallas. "I'm working on my third year at Sun, still looking for the grease along the Texas Gulf Coast. I expect to produce a baby and some oil in August."
- William P. LeCroix** (BS '49) is an aerospace technologist for NASA in Houston. He is "getting ready for retirement."
- H. Louis Lee** (BS '54, MA '58) is a partner in Panterra Petroleum Co. in Houston. "I made a fantastic 3 week trip to China in fall of '83. I got to exchange ideas with Chinese geologists and managers from many areas of eastern China. The China Association for Science and Technology, our host for the trip, did a fine job setting up the technical sessions, translation, visits to field facilities and accommodations. The food was generally good, but watch out for the jellied holothurians."
- Joseph W. Lee** (BS '50) is a geologist in Dallas.
- Ray Leonard** (MA '77) is senior project geologist for Amoco Europe and West Africa, Inc., living in London, England. "During the past year we have moved from Stavanger, Norway to London. On June 3, 1983 our third child and first daughter, Anya Elizabeth, was born in Stavanger. We are all well and enjoying life in England."
- David M. Levin** (BA '77) is owner of Levin Consulting in San Antonio. "I am having a very exciting, active and successful 1984 while watching my new company grow with exploration activities in south and west Texas and Gulf Coast."
- Samuel Levin** (BS '50, MA '52) is exploration systems advisor for Exxon Co. USA in Houston.
- Ron Lewis** (PhD '82) is an assistant professor in the Department of Geology at Auburn University in Auburn, Alabama. "This has been an eventful year for me. In May I married Nancy Heller, an art historian at Oberlin College. Also this spring, I accepted an offer to join the faculty at Auburn University, and we will be moving there in August."
- Timothy Gregory Lignoul** (BS '82) is a geologist in Houston.
- Tung-Hung Thomas Lin** (MA '84) is exploration geologist for Bridwell Oil Co. in Wichita Falls. "This company is active in the northern Texas area. My job is mainly to interpret Vibroseis seismic data and electric logs; then, correlate them to find the reservoir. The producing zones are mainly from Mobil ss (Penn) to Ellenberger (Ordovician)."
- Sandra Lindquist** (MA '76) is a geologist for Amoco Production Co. in Denver.
- Alsie Linscomb** (BS '51) is an independent petroleum geologist in San Antonio. "I opened consulting offices in the Petroleum Center June 1, 1983. Everything is going great. I am enjoying being president, vice-president, treasurer, exploration geologist and janitor all at one time. There's far less pressure in janitorial work than any other."
- Eugene Lipstate** (BS '49) is president of Eugene J. Lipstate, vice-president of exploration for Northwest Oil Co. in Lafayette, Louisiana. "I am looking forward to the 1984 football season to get to Austin. Jo Ann and I became grandparents for the first time in March."
- Nancy Elizabeth (Green) Lister** (BA '55) is a housewife. "We've had a great year. Chip is a freshman at Baylor and Gregg and David are in high school. Last summer we had a wonderful trip to Europe touring 8 countries. 'Hello' to all."
- Larry D. Littlefield** (BS '57) is exploration manager, Cabinda for Gulf Oil Exploration International in Houston.
- George Livesay** (BS '79) is a geophysicist for Union Oil Co. of California in Midland.
- Erwin R. (E. R.) Lochte, Jr.** (BS '56) is an independent petroleum geologist in San Antonio. "As of January 1, I am now an independent petroleum geologist with no strings attached to anyone; what a great feeling. I should have done this some time back. I have been getting quite a few wells drilled with some success."
- Allen C. Locklin** (BS '54) is president of Locklin Oil Co. Tyler. "My wife, Nancy (Summers), and I are enjoying granddaughters, Lindsay and Claire, by our daughter, Lee Ann, and her husband, Scott Shaver (geologist, TTU). A third is due in July. My son, Chris, an engineer with Conoco is in Houston after a hitch in the Persian Gulf. Life is good and I am richly blessed. The oil business could be better, it's still not bad, though. I still enjoy the *Newsletter*."
- John L. Loftis, Jr.** (BS '40) is an independent geologist in Houston.
- E. Alan Lohse** (PhD '52) is a consulting geologist in Hot Springs, Arkansas. "I retired from Houston to the country west of Hot Springs with enough consulting to stay busy but not interfere with fishing and canoeing."
- Susan A. Longacre** (BS '64) is a professional specialist in geology for Getty Oil Co. in Houston. "The big news this year is that after 15 years with Getty, we now belong to Texaco. The future certainly is uncertain. Hope all is resolved when this reaches print. A Middle East reservoir study is now consuming my days, and AAPG work, my evenings. Occasional field trip and a bit of class work at the University of Houston keep broadening my horizons—may they never shrink."
- Mark W. Longman** (PhD '76) is a research geologist for Berrong Enterprises, Ltd. in Colorado.
- E. William Longmire** (BS '50) is vice-president of C. R. Haley Co. in Dallas. "I am going to retire next year. I hope to finally play all the golf I want to. I may even start fishing again."
- R. Michael Looney** (BS '71, MA '77) is exploration manager for REA Exploration in Houston. "I am actively generating Miocene and Oligocene prospects in south Louisiana and the Texas Gulf Coast. I enjoy reading the *Newsletter* and hearing news from the Department and friends."
- John Lottinville** (BS '79) is a logging geologist trainee for Exlog in Houston.
- Robert G. Lovick** (BS '51) is a consulting geologist in Houston.
- Howard R. Lowe** (BS '48) is president of Caribbo Exploration, Inc. in Bellevue, Washington. "I am actively pursuing the purchase of O/G Production properties. I don't get out on my boat too much, but I am planning a trip to the Queen Charlotte Islands (a number of Vancouver Islands about 75 miles off the Canadian coast) in July."
- Lester E. Ludwick** (BS '50) is manager of reservoir geology for the El Paso Natural Gas Co. in El Paso. "Nothing much is new. The last of my children (Mary) finished her freshman year at UT this spring. The two older children, Larry and Laura, graduated from UT in '75 and '77."
- Vance M. Lynch** (BS '51) is chief geophysicist, Gulf region for Union Oil Co. of California in Houston. "I am enjoying Texas after 20 years in the international operations of Union Oil Co. of California."
- James I. Lyons** (BS '71, MA '75) is exploration geologist for Chevron Resources in Greenwood Village, Colorado. "I'm now a part of the Nevada gold rush. As for most of the past 10 years I seem to stay on the steepest part of the learning curve."
- Gabriel Macias** (BA '82) is field inspector, Oil and Gas Division for the Railroad Commission of Texas in San Angelo. "I have recently begun working for the RRC of Texas. It is very interesting work. I lived in Houston for a year during which I worked for Sohio as a geophysical technical assistant. I co-published a map of south-central Texas under the name of Map Ventures; look for it at bookstands."
- Don F. Mahaffey** (BS '59) is an independent geologist in Oklahoma City. "After 8 years of making my way in the world as a consulting geologist, I decided early this year to form an operating oil and gas company and have done so. Not a day goes by that I do not have at least one occasion to reflect upon the value of my basic education received at UT."
- Bruno Maldonado** (BS '82) is a geophysicist for Sun Exploration and Production Co. in Dallas. "I am generating oil and gas prospects in the Marietta Basin of southern Oklahoma and north Texas."
- Vaughn C. Maley** (BA '26) is retired and living in Midland. "I spend some time with elderly people at Trinity Tower, a home for the elderly. I am active in charitable work, play golf and travel."
- Charles Mankin** (BS '54, MA '55, PhD '58) is director of the Oklahoma Geological Survey and executive director of the Energy Resources Institute at the University of Oklahoma in Norman. "This was the year for graduations, daughters—Sally with a BA in

- accounting and Helen with a BS in Computer Science from OU and Laura from Norman High. Sally and Helen are both gainfully employed. My bank account is showing signs of recovery.
- Kim Manley** (MED Geol '68) is a consulting geologist in Tulsa.
- Ronald J. Marr** (BS '52, MA '56) is director of international advance exploration for Conoco in Bellville, Texas. "I am now back in international exploration as director of the advance exploration group after serving as the North American director for three years.
- George Marshall** (BA '48) is retired from Conoco and living in Houston. "I retired August 1 from Conoco after 35 years. Believe me, it ranks right up there with sliced bread. I am busy all the time. Best regards to all. You are doing a super job on the *Newsletter*."
- Sabin W. Marshall** (BS '52) is manager of geology for the Texas Gas Transmission Corp. in Houston. I am moving my office from a downtown building to another similar one. I have survived another merger with a railroad being the parent company."
- Mark A. Martin** (BS '79) is a consulting geologist in Tyler, Texas. "I am working hard in the Fort Worth Basin and Bend Arch areas with 'my virgin oil company, Miss Texas Oil. I want to invite Rob Conti, 'Yankee' and Ann Hoadley-Leist to give me a shout (214-592-1891)."
- David F. Martineau** (BS '60) is exploration manager for Pitts Oil Co. in Dallas.
- Roy W. Massey** (BS '50) is district geophysicist for Marathon Oil Co. in Houston.
- Michael J. Mattalino** (BS '81) is a geologist for Consolidated Oil and Gas, Inc. in Houston.
- Jose F. Matos** (MA '71) is technical adviser to the director of hydrocarbons for the Ministry of Energy and Mines in Caracas, Venezuela.
- Paul R. Mayo** (BS '50) is an independent geologist in Abilene. "I am enjoying living in west central Texas and exploring this area of complexities. I would enjoy hearing from or seeing alumni, and a good rain.
- Robert Truett Mayo** (BA '48, MA '50) is president of First National Bank in Wills Point, Texas.
- Donald L. McAlpin** (BS '54) is technical service manager for RSR Corp. in Dallas. "My youngest daughter, Lisa, graduates from high school. We still live in the Dallas area. Kathy graduated from UTA with a degree in computer science.
- Robert L. McBroom** (BA '51) is a consulting petroleum geologist in Wichita Falls.
- William E. McBroom** (BS '40) is retired and living in Vernon, Texas. "I am still enjoying the same old pursuits at my own pace and pleasure.
- John C. McBryde** (MA '79) is a production geologist for Mobil in Houston. "I am still with Mobil, working offshore production. Marla and Michael (1 year) are doing well. I don't know which is harder—first year of parenthood or last year of grad school. (Both are rewarding.)"
- James P. McCalpin** (BA '72) is an assistant professor in the Department of Geology at Utah State University. I am busy trying to set up a program in geomorphology/quaternary geology here at Utah State. Despite good funding for geologic hazards research (earthquakes, landslides) I am getting nervous because my house is on a debris fan ½ mile from an acute fault.
- A. Nelson McCarter, Jr.** (BS '83) is a geologist in Houston.
- Holland C. McCarver** (atten. '31-'37) is retired in Austin. "I am now living at Lakeway on the west flank of Round Mountain where I collected fossils in 1936-37 while 'field-tripping' in Geology 364. I am still collecting."
- Willard A. McCracken** (BS '58) is an associate professor of geology at Western Illinois University in Macomb. "The oil boom has died; our geology majors have declined in number but the quality of our geology students is increasing.
- Leroy McCravey** (BA '42) is retired and living in Houston.
- C. Carew McFall** (BS '50) is a consultant in Los Altos Hills, California. "I am continuing in mineral development, lately in Montana."
- Edward F. McGee** (BS '50, MA '52) is a consultant in Wimberley, Texas.
- Gene Funkhouser (Keyser) McGill** (BS '48) is a self-employed geological secretary in Midland. "With a mushrooming family of 7 grandchildren, some interesting work for clients involving AAPG, DPA, as well as the daily exploration efforts and much time spent watering new fruit and pecan trees at our lake property, life is being just especially good to our family right now. The *Newsletter* continues to be a high spot in my year—you do a super job.
- Bill J. McGrew** (BS '54, MA '55) is an independent geological consultant in Mena, Arkansas. He will find oil and gas for anyone.
- Wayne Eugene McIntosh** (BS '56) is chief of the Corps of Engineers, geotechnical branch for the US Army Corps of Engineers in Fort Worth. "My son, Scott, is still going to UT. He likes it so much that I doubt he will leave willingly. The rest of the family is scattered across the country. I am looking forward to my upcoming retirement and taking on other pursuits (golf, travel, golf, consulting, golf, more travel, golf etc.)."
- Charles Edward McKemie** (BS '79) is regional explorationist for USA for the A. G. Hill family of Dallas since 1980 after leaving Texaco, Inc. of Houston.
- W. N. (Mac) McKinney, Jr.** (BS '60, MA '63) is senior explorationist for Aminoil, Inc. in Houston. "I just spent a year as the vice-president and program chairman for the Houston Geological Society. I had a lot of fun and even got Pete Rose to give us a 'free' talk. I must have done something right; I was just elected to president-elect of the Society.
- Charles A. McLarty, Jr.** (BS '49) is president of McLarty Oil Corp. in Tyler, Texas. "Hello to all of my *old* friends.
- L. A. McLaurin** (BS '58) is in international sales for Polaris Equipment, Inc. in Houston.
- Peter McMahon** (MA '83) is with the USGS in South Carolina.
- Jude McMurry** (MA '82) is a geologist for Arco Oil and Gas Co. in Midland. "I completed two active and satisfying years in September as a geologist with Arco, then moved to Spokane, Washington. In December of 1983, I married Roland Huff, an associate professor of English at Eastern Washington University. Midland-Spokane is a heck of a commute, and plate motions aren't putting Texas and Washington appreciably closer, so I am taking advantage of a leave of absence to improve my computer skills and to get acquainted with the geology of the northwestern US (and possibly to get better acquainted with my spouse).
- Alex McNair** (BS '78) is geophysical training supervisor for Arco Exploration Co. in Plano, Texas. "After 5 years cranking prospects in Lafayette, I'm now instructing Arco's new explorationists in the fine arts (read 'seismic interpretation'). Karen and I are doing just right with our 2 little doodlebuggers. Tom and Nancy—where are ya'll?"
- Jerald E. McQueen** (BS '61, MA '63) is vice-president of Medallion Oil Co. in Houston.
- Joe N. Meadows** (BA '62) is an attorney in Waco.
- John A. Means** (MA '47) is a geologist in Dallas. "I retired from Sun Oil 4 years ago. I am finding reserves for King Ranch Oil and Gas."
- William J. Meek** (BS '55) is owner of William J. Meek Insurance Agency, Inc. in Arlington, Texas. "We never encounter a 'dull' moment and stay very active in the growing Arlington and Mid-Cities area, writing insurance coverage. If we can ever help a UT ex, just give us a call, we'd love to visit, just come by and coffee up.
- Charles M. Merrill** (BS '56) is a consultant for the Texas Education Agency in Austin. "I still reminisce about the 660 summer field trip to Brady and Big Bend back in '55; the antics of Jimmy Lamb, Curry Hendricks *et al*—bailing out of the rear of the old 'blue goose' like a stick of paratroopers (all 30 of us) while laboring up the road to McDonald Observatory. Or nearly losing the carryall in high water in Terlingua Creek (or was it Tornillo?). We never did forgive Pete Roux for giving away our genuine ram's head hood ornament to those 'yankees'—and we learned some geology, too.
- Mario L. Messina** (BS '59, MA '62) is chief executive officer for Messina, Inc. in Dallas. "My wife Jennifer's restaurant 'The Jennivine' is still doing well. Messina opened a new office in Singapore.
- Dean Metts** (BA '32) is an independent geologist in Three Rivers, Texas. "I have been carefully studying the situation for over 50 years; it is concluded that oil is where you find it."

- Daniel N. Miller, Jr.** (PhD '55) is an exploration consultant in Washington, D.C.
- Harry A. Miller, Jr.** (BS '41) is an independent geologist in Midland. "I am attempting to give back to the geology profession some of the benefits it gave me. I am actively involved with AAPG, president of the southwest section division of Professional Affairs and a member of the UT Geology Foundation Advisory Council.
- R. Dick Miller** (BS '52) is geological manager for the Geomap Co. in Plano, Texas. "I left Houston last year after 13 years there to start a geological department in Geomap's Plano office. Pat and I enjoy living and working here in Plano.
- W. Rinehart Miller** (BA '46) is a self-employed exploration geologist in Corpus Christi. "I am not letting my work get in the way of my golf; I am playing 3 or 4 times a week and spending the rest of my time looking for likely places to get lucky in finding some oil or gas; I have occasional success in both my golf as well as my oil finding.
- Wayne D. Miller** (MA '57) is an independent geologist in Midland. "I have been retained, since the first of the year, by USENGO, Inc. as their vice-president of exploration. This added position has been keeping me busy with handling the exploration staff and putting together their drilling program for this year. Everyone is fine including our 2 grandchildren, a boy and a girl.
- Richard A. Mills** (BS '50) is vice-president of Felmont Oil Corp. in Houston. "In December '83 I was promoted to vice-president of operations for the company. I recently co-authored an article in the *Journal of Geological Education*, 'Mosquitia Trip'.
- James R. Moffett** (BS '61) is co-chairman of McMoran Oil and Gas Co. in Metairie, Louisiana. "There are 3 important things that will solve the energy problems of this country: 1. good geology, 2. good geology, and 3. good geology. Keep turning out the top people. They will be needed.
- William A. Monroe** (BS '63) is vice-president of exploration and general manager for Samson Resources in Houston. "I am prospecting in the Gulf Coast Tertiary again—it would be hard to prove that the oil patch is in a slump by the tight lease situation. I'm rooting for the Horns in the College World Series."
- Wayland P. Moody** (BS '54) is a regional completion engineer for Sun Exploration and Production Co. in Dallas. "I am looking forward to another good year for the Horns. Everything is doing fine, including my middle-age spread.
- Charles Gardley Moon** (BS '40, MA '42, PhD '50) is retired from Exxon and living in Houston. "After 12 years of it, retirement is still great and gets better all the time.
- R. McKay Moore** (MS '52) is an independent geologist in Shreveport, Louisiana.
- Sara F. Moore** (BA '79) is an exploration geologist for Wessely Energy in Dallas.
- Terry Lee Moore** (BS '80) is an exploration geophysicist for Cities Service Oil and Gas Corp. in Midland. "After 10 years of marriage, Beverly and I finally bought a 4-bedroom, 3-bath, starter home. Our 3 children enjoy the space. Y'all come see us.
- J. B. Moorhead** (BS '39, MA '39) is an independent geologist in Wichita Falls.
- Julian (Hank) Morgan** (BS '49) is senior exploration advisor for Ashland Exploration Inc. in Houston. "I joined Ashland in November 1982. We are busy with an active exploration program. We (Jonelle and I) have 2 acres west of Austin in the hills off Ranch Road 2222 with plans in hand to build our retirement home in about 2½ years. Keep up the good work with the *Newsletter*.
- Marian Morris** (BS '81) is a geophysicist for Superior Oil Co. in Houston.
- Michael B. Morris** (BS '47) is a petroleum consultant in Houston. "Early retirement from Conoco May 1, 1983 was the best decision I ever made. I'm on 3 corporate boards, 1 bank board and am as busy as I want to be.
- Michael S. Morris** (BS '75) is owner of Glacier Energy, Inc. in Corpus Christi. "I recently ran into Bruce White in southern Mexico near the border of Guatemala. His interests there were not disclosed.
- Susan J. (Deutsch) Morris** (BS '70) is senior project geologist for Gulf Oil Exploration and Production Co. in Houston.
- Pat Murta** (BA '41) is an independent consulting geologist in Cushing, Oklahoma. "After 6 years in Midland with W. K. Warren Interests and nearly 4 years in Cushing with Nucorp, Inc. and as an independent, my wife, Betty Ruth, and I are moving back to Tulsa.
- Lee A. Musgrove** (MA '81) is a petroleum geophysicist for Amoco in Houston. "I recently bought a house and am busy pursuing the elusive manicured, weedless, green lawn.
- Jesus Najera-Garza** (att. 65-67) is living in McAllen, Texas.
- Pat F. Nelson** (BA '58) is a geologist for Gunn Oil Co. in Wichita Falls.
- David Nilsson** (BS '61) is teaching math at UT in Austin.
- Janet Busbey-Nilsson** (BS Zoo '76, BS Geo '77) is a housewife and mother in Austin. "We're excited about buying a big house in south Austin and hope some old friends will come visit us. Art's still teaching and Janet's staying home with the girls, 3 and 4 now.
- Ron Nordquist** (MA '72) is a senior geological specialist for Tenneco Oil in Denver. "Our child number 1, Alice Louise, was born March 8, 1984.
- Isaac W. Norman** (BS '48) is executive vice-president for Bishop Petroleum, Inc. in Houston.
- K. V. Northington, Jr.** is president of Northington, Inc. in San Angelo, Texas. He is still wrapping and drilling the eastern Shelf.
- George E. Nowotny, Jr.** (BS '55) is chairman of the board of Guaranty National Bank in Tulsa. "I am still scrambling to keep up with deregulation and improve on profits in this new environment.
- W. A. (Bill) Nowotny** (BA '42) is a consulting geologist in Houston. "I am up to my knees in grandchildren but I am still looking for more oil and gas, whichever comes first. I still think that there are more oil and gas fields to be found but you gotta drill.
- Bob O'Brien** (BS '52, MA '56) is a professor of geography at San Diego State University. "I visited the University this spring for the first real visit since my graduation. It is a pretty awesome place compared to just about anywhere.
- Josh and Diana Oden** (BS '56, MA '58; BA '55) write, "By the time the *Newsletter* is mailed, we should be living in Eagle Pass. This weekend commuting is for the birds. We have bought a little place out in the country with lots of pecan trees. Our new mailing address is: P. O. Drawer 2948, Eagle Pass, 78853. Hello to all our friends. Josh is chief geologist for Winn Exploration Co. Inc.
- John F. O'Donohoe** (BS '50) is president of Coastline Exploration, Inc. in Houston.
- A. M. (Red) Olander** (BS '48) is manager of the geophysical division for Gulf Coast Division of Exxon in Houston. "I am a nominee for the office of president of the SEG for 1984-85. The election is in mid-1984.
- Bill Oliver** (MA '70) is an independent geologist in Lafayette, Louisiana.
- John S. Orr** (BS '59) is division manager for Patrick Petroleum in Billings, Montana.
- R. William Orr** (MA '64) is chairman of the geology department at Ball State University in Muncie, Indiana. "I have been re-elected department chairman for 3 years. Geology is moving into new space next autumn. The department acquired an SEM, TEM and AA unit this year to enhance our research capabilities."
- Judd H. Oualline** (BA '42) is vice-president for Getty Oil Co. in Houston.
- Donald E. Owen** (MA '51) is professor of geology at Indiana State University in Terre Haute. "I am looking forward to becoming a grandfather this summer. I am teaching field courses in New Mexico (WNMU) and Montana (Indiana U) again. I enjoy being on 3 payrolls.
- Kenneth Ira Owens** (BS '54) is a consultant in Austin. "The oil business is improving. Prediction: gas glut will disappear by 1985, oil prices will continue upward.
- Robert M. Owens** (BS '51) is an independent geologist in Houston.
- Jack M. Park** (BS '50) is president of Parcoil Corp. in Dallas.
- John W. F. Parker** (PhD '67) is professor of geology at Albion College in Albion, Michigan. "My work at Albion has resulted in some excellent geology majors but field trips grow harder as I get older. I was in and out of the hospital a lot in the last year. I need a trip to Texas.

- Gaston H. Parrish** (BA '20) is retired in Corpus Christi. "I am still enjoying retirement and good health. I always look forward to receiving the *Newsletter*."
- A. B. Patterson** (MA '41) is partner and vice-president of Loque and Patterson, Inc. in Dallas.
- J. F. Patterson, Jr.** (BS '52) is a consultant in Bellaire, Texas.
- Bill R. Payne** (BA '40, MA '41) is retired and living in Houston. "I am still enjoying travel. Just got back from a long trip to the Orient. I particularly enjoyed Taiwan, Thailand, and Bali. As always, the *Newsletter* is very enjoyable to receive and read at leisure."
- James E. Peterson** (MA '55) is an independent geologist in Dallas.
- Kim P. Peterson** (BS '75) is a geologist for Eaton Operating Co., Inc. in Houston.
- Ben J. Petrusek** (BA '42) is a retired micropaleontologist living in Metairie, Louisiana. "After 38 years of service I have retired from Amoco Production Co. of New Orleans. Now I will attempt to do some of the things retirees are supposed to do."
- Van A. Petty, Jr.** (BS '40, MA '41) is an independent geologist in San Antonio. "I look forward every year to receiving your excellent *Newsletter*."
- George Pichel** (BS '51) is chief geologist for Union Oil in Los Angeles. "It is a pleasure to serve on the Advisory Council in association with the UT Geology Department."
- Donald F. Pierini** (BS-Educ. '77, BS '82) is a geophysicist for Amoco Production Co. in Denver.
- John D. Pigott** (BS '74, MA '77) is assistant professor in the school of geology at the University of Oklahoma in Norman. "Patti (Bettis, UT '75) and I are experiencing increasing difficulties in spending our summer vacations together. Fortunately, her duties as senior exploration geologist with Kerr-McGee International and my research as a 3rd year professor at OU geographically coincided in Paris in June and in Singapore in August. We've always considered it remarkable that the business and science of oil can be found in the nicest of places. However, our one major economic constraint when we are away is the expense in boarding our 110 lb. Hungarian sheep dog."
- James Stuart Pittman** (atten. '53-57, '68-'70) is retired and living in San Antonio. "I am still retired, but anxious to get back to work. Lazy as I am, inactivity is slow torture—quite a paradox."
- Gerald S. Pitts** (BS '54) is president of Pitts Energy Co. in Midland. "Our oil and gas exploration activity continues to increase. It seems good prospects are harder to find. Good luck to all for 1984."
- Phil M. Pitzer** (BS '54) is an oil operator in Breckenridge, Texas. "Marc and Greg are in Breckenridge, Greg as a geologist; Clay is in Denton becoming a fine sculptor. The oil business is slow (as far as success). Polly is still the rock for us all."
- M. E. (Gene) Pollock** (BA '62) is a consulting geologist in Phoenix.
- Robert B. (Bob) Porter** is exploration manager for American Petrofina Co. in Midland. "This has been a very active year establishing new district exploration offices for APCOT in Midland. I am enjoying the challenge and staying busy. Polly and I also enjoy fall football weekends in Austin, our work in Midland and occasional R & R at Ruidoso, New Mexico with kids and grandkids."
- J. Dan Powell** (PhD '61) is a consulting geologist and president of Powell and Associates in Grand Junction, Colorado. "Business is erratic, at best—it requires that we spend about half of our time in oil and gas and in mining. The last of our 3 boys is finishing high school this year. Wes (oldest), honors graduate in 1982 from Colorado School of Mines, is in Bangkok with Union Oil Co. Two in college next fall = work."
- Edward D. Pressler** (BA '26) is retired from Exxon Co. USA and living in Houston.
- J. Eric Pressler** (BS '68) is an exploration geologist for the North Central Oil Corp. in Houston.
- John W. Preston** (BS '70) is an exploration geologist for the Louisiana Land and Exploration Co. in Houston. "I am still slipping logs for a cajun outfit (LL&E) and trying to get re-adjusted to married life. With Nancy, her 2 girls and my 2 girls, I have quite a harem."
- William C. Price** (BS '58) is program chief of hydrology/geotechnology for the Bureau of Radiation Control Department of Texas in Austin.
- John L. Proctor** (BA '50) is a petroleum engineer in Dallas. "We toured the Alps again last summer. The Alps are the same, but the people have changed a great deal since our last visit in 1977. In 1977, the people were happy and optimistic. Now they are pessimistic and believe a war in Europe is imminent."
- E. Joe Pruitt** (MA '48) is a consulting geologist in Houston.
- A. Leo Pugh** (BS '52) is vice-president of sales, Gulf Coast Division of Gulf Coast Geo Data in Houston. "Leo reports that seismic data sales are beginning to move upward again after a brief slow-down. My family is fine and still living in great big Houston, the oil capitol."
- Aubrey H. Rabensburg** (BS '37) is an independent investor in Houston. "I am working on shallow domal prospects in Texas, Louisiana and Mississippi."
- Jack H. Ragsdale** (BS '51) is chairman of the board of Ragsdale Well Logging Co. in Houston.
- W. K. Rainbolt, Jr.** (BA '57) is president of Dynamic Exploration, Inc. in Lafayette, Louisiana.
- William R. Ransone** (MA '31) is a partner, Ransone Exploration Co. in Dallas.
- Clyde M. Rascoe** (BS '49) is president of Merit Oil Co. in San Angelo, Texas.
- W. A. (Al) Ratcliff** (BS '50) is senior exploration geophysicist for Mark Producing, Inc. "I am still working Gulf Coast areas for Mark."
- R. Randy Ray** (BS '74) is consulting geophysicist for R³ Exploration Corp. in Lakewood, Colorado. "I completed my MS in geology at Colorado School of Mines in May 1983. Kathy and I stay busy running after Brandon (2 years) and newly arrived Austin (2 months). Business is hectic—picking wiggles and knocking rocks. Hello to all."
- H. Clay Reichert** (BA '38) is a prospector for petroleum in Lafayette, Louisiana. "I am so very, very happy that I enjoy my work and I am pleased that there is so much work waiting to be done."
- Jeffrey C. Reid** (MA '73) is a senior research geologist for Arco Oil and Gas Co. in Plano, Texas. "Our second child, Eric, was born September 30; Sara will start school this fall. Custom gem (faceting) business is flourishing—send your inquiries and orders."
- Charles B. Renaud** (BS '49, MA '50) is an independent geologist in Midland. "I am still plugging along in Midland. My grandson starts at UT in September and will major in geology, he tells me."
- W. F. Reynolds** (MA '53) is a partner in J. C. & W. F. Reynolds Oil Producers Co. in Wichita Falls, Texas.
- James W. Richards** (BS '58) is a partner in Richards and Winkler in Midland. "I am still drilling and looking forward to an up-turn in the oil business."
- James V. (Jim) Richards** (BS '56) is a consultant for Genesis Petroleum in Houston. "I am having some luck this year, 5 new oil discoveries and 4 new gas discoveries. I traveled to Thailand and China this spring. We bought some new stuff for the Austin Christmas store at the Canton Trade Fair but had to go to Germany to find a dragon for our new display area."
- Wade C. Ridley** (BS '53, MA '55) is president of Ridley Oil Corp. in Tyler, Texas. "I am enjoying having my son, Tom, with me as landman. My other son, Clark, is starting his third year at UT Medical Branch, Galveston. I am still working east Texas and still in love with Tyler after 29½ years."
- John S. Rives II** (MA candidate '74) is a staff geologist with Conoco in Lafayette, Louisiana. "I've been elected president of the Lafayette Geological Society for 1984-85. We are expecting our second child in December '84. It looks like the coming year will be filled with new responsibilities. I'm still exploring in the Miocene section of offshore Louisiana."
- Jess B. Roach** (BA '41) is a consultant in Austin. "I retired and moved to Austin last fall. I have kept busy consulting for my former employers and getting my retirement home fixed as we want it. I am really enjoying being back home after many years in Colorado and Oklahoma. Friends, please drop by."
- Virgil H. Roan** (BS '49) is manager of Roan Royalty Co., Inc. in Ardmore, Oklahoma. "I



Rock Robertson (BS '55, MA '56) viewing the Ames-Robertson Fault, Bastrop County, Texas, August 1954.

am still doing some consulting, but I am spending most of my time managing our royalty company."

Roland S. (Rock) Robertson (BS '55, MA '56) is a consulting geologist in Corpus Christi.

Katherine Rosenfield Rodgers (BS '81) is a geological/computer consultant in Houston.

J. W. (Bill) Rogers (BS '49) is retired in Austin. "Madeline and I packed it in late last year after 34 years with Texaco. We are making Austin our home and enjoying the opportunity to live in the good old USA again."

Robert Brooks Ross (BS '50) is an explorationist in Partners Oil Co. in Houston.

Peter D. Rowley (PhD '68) is a geologist for US Geological Survey in Denver. "I am continuing research in Antarctica and southwest Utah. I spent January in Saudi Arabia looking at some upper Precambrian sedimentary and volcanic rocks. I expect to do field work in Antarctica during the winter of 1984-85."

W. Wayne Roye (BS '51) is an independent petroleum geologist in Midland.

Jimmie Norton Russell (BS '48) is geologist/supervisor for the Texas Department of Water Resources in Austin.

Lloyd J. Ryman (BS '38) is an international petroleum exploration consultant and a member of the board of directors of Jackson Exploration, Inc. "Since retiring from Conoco in 1982 I am directing my consultancy efforts toward exploration outside the US. I still travel abroad considerably and enjoy it."

Floyd F. Sabins (BS '52) is senior research associate for Chevron Oil Field Research Co. in La Habra, California. "I received the 1983 record award from NASA and the US Department of Interior for 'contribution to remote sensing in fields of research, education and policy making'."

Chester C. Sadler, Jr. (BS '53) is a geologist for Coryell Petroleum Co. in Gatesville, Texas.

Paul F. Sagasta (MA '84) is a geophysicist for Union Oil International. "I am enjoying the climate and scenery, and the beaches and mountains."

Philip K. Sampler (BS '51) is president of Sampler Oil and Gas, Inc. "We are still operating

primarily in Texas. I just made a new discovery in March and I'm about to embark on a development program."

Donald F. Sandifer (BS '35) is semi-retired in San Antonio. "I still retain my office, but Louise and I are traveling quite a bit and are enjoying seeing different parts of the US, Alaska, Europe, etc. I hope our health holds up so that we can see more. I also hope the oil and gas industry holds up."

Charles E. Sandidge (BS '78) is an exploration geologist for Florida Exploration Co. in Houston.

Wayne E. Schake (MA '61) is a pilot for Pan American Airways. "I have taken an assignment with Pam Am in Berlin to fly B737's around Europe. I am moving my family to Berlin for a few years in July."

Richard L. Scheig (BS '53) is an independent geologist and operator in Houston.

Jack R. Schmid (BS '51) is a consulting geologist in Dallas.

George W. Schneider, Jr. (BS '57) is an independent geologist in Lafayette, Louisiana. "Best wishes to Bill Fisher in 'all' his new tasks. My family and I are moving to Austin in the summer of '85." George continues to be active on the UT Geology Foundation Advisory Council.

Tom Schneider (BS '50, MA '51) is an independent geologist in Midland. "I am spending most of my time working on close-in deals in the oil business, together with some real estate ventures. I finally have one son in a business graduate program—my first UT student."

Paul E. Schnurr (MA '55) is regional manager for the Walnut Creek Region, Hrubetz Oil Co. and living in Concord, California.

Milt Scholl (BS '47, MA '48) is a science teacher at Hilltop Jr. High School in Chula Vista, California. "I am looking forward to a camping summer at Bryce, Zion, Grand Canyon North Rim and on to Oregon to visit my oldest son. He is in a PhD program at Oregon Graduate Center. My other 3 children are nearby with one a senior in college and the rest working."

Barth Schorre (BS '49) is a geophysical scientist for Exxon Co. USA. "I am still working the Texas Gulf Coast. I always enjoy reading the *Newsletter*."

Clarence C. Schroeder (BA '40) is retired and enjoying life in San Antonio.

Glynn Schuchardt (BS '52) is a geophysical consultant for Mitchell Energy Corp. in Houston. "I am still doing geophysical consulting for Mitchell Energy. I still go, go, go and am doing well. To all my 'steel-headed' buddies—Howdy. It is just a matter of hanging in there."

John T. (Ted) Schulenberg is an independent geologist in Houston. "No real news. Our 2 daughters live in Egypt. Our son is in Ecuador. Meanwhile Janet and I work in Houston trying to save up enough money to visit them. I think there's a lesson in that somewhere but I'm not smart enough to figure it out."

Rubin A. Schultz, Jr. (BS '61) is district maintenance superintendent for the State Department of Highways and Public Transportation in Corpus Christi. "Not much to report—still with the Highway Department (lots of work). My wife and I enjoyed visiting the Hawaiian Islands last summer. Maui is great. We are already planning a return trip. The geology open house last fall was great too; keep it up."

Jerry W. Schwarzbach (BA '83) is a medical student in Houston. "I am just finishing up my first year of medical school. I hope to spend some time in the field over my summer break. One possibility is a dinosaur dig."

Eugene P. Scott (BS '56) is an independent geologist in Corpus Christi.

R. Bonner Sears (MA '78) is working with Energy Reserves Group in Denver.

Louie Sebring, Jr. (BS '41, MA '47) is a consulting geologist in Corpus Christi. "Nothing is new. I am taking care of a 91-year-old father and a 7-year-old grandson which precludes any trips to Alaska or Africa this year and none to conventions either."

Clyde Seewald (BS '63, MA '66) is an exploration manager in Longview, Texas. Paula and I are still enjoying the good life in east Texas. My oldest son, Jeff, will be starting his senior year in journalism at UT this fall."

Kenneth O. Seewald (PhD '64) is an independent geologist working in San Antonio, living in Boerne, Texas. "Mary and I are thoroughly enjoying the Texas hill country after 8 years in Denver. We're still dabbling in real estate while continuing our search for another giant Texas oil field."

Daniel Eugene Self (MA '84) is an exploration geologist for Union Oil Co. in Jackson, Mississippi.

Charles R. Sewell (MA '55) is owner of Sewell Mineral Exploration in Tucson, Arizona. "Maggie and I are still doing our things but she has given up nursing for real estate school. Mike (oldest), BS in geology, University of Arizona, has spent the last 2½ years working with gold and silver mines in the Sierra Madre de Mexico. He is returning to the university for his MS in fall '84. Scut is a driller and has 2 sons. Beth, BS in sociology, NAU is working with senior nutrition program in Safford, Arizona."

Stephen L. Shaw (BS '71, MA '74) is an exploration geologist for Conquest Exploration Co. in Midland.

Jerry M. and Gay (Salinas) Shelby (BA '57; BS '57) is president of Pioneer Production Corp. in Amarillo, Texas. "I became president of this company in May 1983. Business has been the 'pits' since. Gay is playing a lot of tennis. Theresa (oldest) was married in June 1983. She and her husband Steve Winkler, graduated from Texas Tech in May. (He—mechanical engineer; she—computer science.) Annette (youngest) won state tennis doubles in 5-A high school, graduated valedictorian and is a freshman at Stanford."

- William K. Sheldon** (BS '48) is chief geologist for the Norden Trust in San Antonio. "No change here but daughter Susan (class '78) is expecting a junior geologist in June. The oil business and I seem to be slowing down or depleting.
- George H. Sherrill** (BS '50) is an independent geologist in San Angelo. "I am continuing research, study and drilling activity in the Permian Basin. Shirley and I are enjoying good health and travel."
- Elgean C. Shield** (BS '53) is president of Shield Development Corp. in Houston. "I finally became independent and have opened an exploration office in Houston. I will look for oil and gas by drilling in Texas and Louisiana.
- David Shomette** (BS '82) is a geologist for Pogo Producing Co. in Houston.
- Clinton R. Simmons** (BA '82) is a geologist working for Texas Oil and Gas Production Corp. in Corpus Christi.
- Samuel J. Sims** (MA '57) is administrator for Natural Resources in Bethlehem, Pennsylvania. "I am involved with iron ore supplies and with Bethlehem's investments in affiliated companies.
- Coyle E. Singletary** (BS '48, MA '52) is an area exploration supervisor for the Marathon Oil Company in Midland.
- Harry H. Sisson** (BS '40) is a consulting geophysicist for Harry H. Sisson, Inc. in Houston. "I am exploring for new prospects to drill; it helps keep me active. Nancy and I are spending more time with each other and others—she calls it smelling the daisies along the way.
- William P. Slater** (BA '50) is an independent geologist in New Braunfels, Texas. "I am working west Texas from Canyon Lake.
- Tommy T. Smiley** (BS '51) is a cartographer for the Defense Mapping Agency in St. Louis. "Just a few more months until retirement and I can get out of these cold winters.
- A. Richard Smith** (BS '64) is director of energy and mineral resources for the Olin Corp. "Had a wonderful vacation in China where I finally saw the spectacular karst in Guilin (Kweilin).
- Daniel L. Smith** (BS '58) is executive vice-president and exploration manager for Texoil Co. in Houston. "We are continuing to be very active in south Louisiana. We hope to drill at least 20 wildcats this year.
- Debra A. Smith** (BA '82) is a geologist for Crescent Exploration in Houston.
- Gary E. Smith** (MA '74) is district geologist in Scottsdale, Arizona. "In June the family is moving to Fountain Hills, Arizona. I will be setting up a new Callahan Mining office in Scottsdale. All old friends are invited to drop by.
- Glenn C. Smith** (BS '53) is an independent geologist/geophysicist for Electra Exploration Corporation in Edmond, Oklahoma. "I recently moved back to Oklahoma to be closer to my area of operations. My daughter, Karen (BS geology, OSU), joined me in 1983 and we are now generating prospects together.
- Harry L. Smith** (BS '51, MA '56) is an oil operator in Boerne, Texas. "Everything is about the same. I am enjoying the hill country.
- Joe E. Smith** (BS '48, MA '49) is an independent geologist in Austin. "My daughter, Barbara, Smith, BS geology, UT '78 and David W. Blaisdell, EE, Purdue '75 were married in Dallas February 25, 1984 and reside in Plano, Texas. My daughter, Ann Louise, and her husband, Craig Freiburger, and 2 children reside in Austin.
- Mark M. (Jack) Smith** (BS '74) is an exploration geologist for Great Western Drilling Co. in Houston.
- T. Frank Smith** (BS '73) is general sales manager for KGNS TV in Laredo, Texas. "Having fun in the caldera of south Texas. Oil exploration is really picking up down here.
- Schaun M. Smith** (BS '79) is a consulting petroleum geologist in Abilene. "I am doing great here in Abilene. I expect to drill over 15 wells by the year's end. I am anticipating the birth of my first child in September. My wife, Melinda (BS '78), is doing fine. Where are you 'woolley mammoths'?—give me a call.
- Frederick C. Smyth** (BS '47) is senior professional geologist for Sun Exploration and Production Co. in Dallas.
- Edmund D. (Ed) Sneed** (MA '55) is district exploration manager for Marathon Oil Co. in Houston after many years in west Texas.
- John L. Snider** (MA '55) is a hydrologist for the US Geological Survey in Alexandria, Louisiana. "I am still employed by the Water Resources Division, US Geological Survey.
- John L. Snyder** (BS '62) is program director of Volcanology and Mantle Geochemistry for the National Science Foundation in Arlington, Virginia. "Volcanology now has a home at NSF, it is now an identified part of the former mantle geochemistry program and the proposal load has increased correspondingly. I enjoyed seeing a few Texas types at the recent Mantle Metasomatism Penrose Conference.
- G. Russell Sparenberg** (BA '30, MA '32) is retired and living in Kerrville, Texas. "My wife, Orlena, and I are still enjoying retirement in the hill country and look forward to meetings and field trips of the hill country geoscientists.
- Howard Speer** (BS '56) is vice-president and manager of regional OTC trading for Dean Witter in Dallas. "I am still trying to apply Bob Folks' statistics to an unpredictable profession. It was good to be reunited with Dean Callender recently in Houston. Regards to all.
- Stephen W. Speer** (MA '83) is a geologist for Yates Petroleum Corp. in Artesia, New Mexico. "I am glad to be back in the clear, dry New Mexico climate, although Austin definitely has its charms. While other geologists here work individual southeastern New Mexico counties, I have the entire western US, north of Chaves County for my playground. Who said grad school was high pressure?"
- Fred Spindle** (BS '49) "I continue to circle the globe—in a decaying orbit—looking after the international exploration interests of Marathon in Houston. We have had our moments of elation mixed in with months of despair but right now it is running high and looking good. Best wishes.
- John F. Stanford, Jr.** (BS '49) is an independent geologist in Austin.
- Ann Marie Stanley** (BA '44) is vice-president of geology for Miles Production in Dallas. "I am working for the same company, a total of 19 years. Recession in the oil business has not hit us; we are staying in the north Fort Worth Basin and learning how to get oil out of this hard Pennsylvanian carbonate, also conglomerate. Bonus is straw and sand.
- Walter W. Stein** (BS '52, MA '52) is an independent geologist in Dallas. He is still hunting oil in north Texas and southern Oklahoma.
- Bill St. John** (BS '58, MA '60, PhD '65) is president of Primary Fuels, Inc. in Houston. "As if the search for oil and gas weren't enough I have taken on tasks of delegation leader for 32 petroleum geologists to China in May and program chairman for AAPG-sponsored Pratt Conference in December. Skeet, boys, daughters-in-law and grandsons are all doing fine."
- Preston A. Stofer** (BA '57) is vice-president with Surface Oil Field Supply in Rockport, Texas. "I am waiting for the return of the 'good old days' to the oil patch.
- Winston L. Stokes** (BS '57) is division land manager for Tenneco Oil Exploration and Production, Texas Gulf Coast Division in Houston. "It is a tremendous company to work with in exploration. My wife and 3 kids are OK.
- Tom W. Stovall** (BS '57) is president and owner of Stovall and Associates in Weslaco, Texas.
- Charles J. Sullins** (MA '71) is geological supervisor for Tenneco Oil Co. in Oklahoma City. "I am happy to be with a successful company with no personnel cutbacks and not in danger of being bought out by Boone Pickens, etc.
- Berry Sutherland** (BS '61) is professor and associate dean at the University of Texas at San Antonio. "I continue to teach and administer as professor and associate dean at UT San Antonio. I am looking forward to instructing another geology field course this summer in El Paso and points west. It's the best excuse I know to get out of the office.
- Leonard J. Svajda** (BS '40, DDS '50) is a retired dentist in Corpus Christi. "I am dabbling in real estate after 5 years in geology (Gulf Oil) and 33 years in dentistry. I am spending more time in California now, especially when the temperature hits 90 degrees in Texas. Come join me on the Pacific Coast until the football season starts, then I'm back in Texas to root for the Horns.

- James B. Tartt** (BS '48) is national sales representative for IMCO Services in Houston.
- Leslie Armour Taylor** (BS '41) is retired and living in Austin.
- Dick Teel** (BS '39) is senior geological associate for Amoco Production Co. in Houston. "I am still working for Amoco and having fun. My oldest son, Dick, Jr. and I are going back to the Alaskan peninsula this fall for caribou and salmon fishing.
- George L. Thomas** (MA '60) is director of research and development for Soils Technology of Texas, Inc. in San Antonio. "My big news is my new position and company (since 20 April '84). We are providing R & D in expansive clay engineering and a treatment service for foundations on expansive clay soils.
- G. Mac Thompson** (BS '59) is a petroleum geologist for Texas Gulf Exploration in Houston.
- M. Gary Thompson** (BS '75, MA '77) is a district production geologist for Exxon in Corpus Christi. "I moved in May from Houston to Corpus Christi—no more commutes to downtown Houston. My wife, Leigh, and I are proud parents; our baby daughter, Holly Anne, was born August 7, 1983."
- T. J. Thompson** (BS '57) is an independent geologist in Dallas. "I enjoy getting the *Newsletter*. Best regards to all."
- Wesley A. Tiller, Jr.** (BS '50) is an independent geologist in Dallas. "I have taken early retirement from Sun Oil after 33 years.
- Bert C. Timm** (MA '41) is president of Caber Corp. in Richardson, Texas. "Caber's consulting business is expanding so it looks like OPEC prices will hold. Would that the gas 'bubble' would break.
- Elsworth Tonn** (BS '55, MBA '79) is president of Ranger Oil Co. in Houston.
- Donald H. Torgerson** (BS '52) is self-employed as a drilling and completion consultant in Littleton, Colorado. "I retired from Dowell Division 2 years ago and moved back to Denver from North Dakota. I am presently performing drilling and completion work in the Rockies, Williston Basin, Wyoming and the D. J. Basin.
- C. Brian Trask** (MA '72) is an associate geologist at Illinois State Geological Survey in Champaign. "My wife and I were back in Austin last summer for her sister's wedding. We enjoyed seeing Austin again (enjoyed the swimming holes at Barton Springs and the sinkhole west of town) but were shocked at the size of the University (a small city) and at Austin itself."
- Everette J. Travis** (MA '51) is retired and living at Buchanan Dam, Texas. "I am planning to see Scandinavian geology this year.
- L. Rex Travis** (BA '48) is president of Rex Travis, Inc. in Houston. "I moved my office from downtown Houston to the suburbs. Business is great for my consulting work. Keep up your good work in supplying us alumni with all the news about our friends as well as news of the Geology Department.
- Robert F. Travis** (BS '57) is vice-president of exploration for Royal Oil and Gas Corp. in Corpus Christi. "Go find a tight sand somewhere—it is amazing what a 1,500,000 lb frac job can do.
- Raymond R. Trollinger, Jr.** (BS '60) is the owner of Raymond R. Trollinger Jr. Investments in Dallas.
- Roy W. Tronrud** (BS '40) is retired from Sun Oil, Inc. "Golf, travel, reading, beer, TV—wotta life.
- Steven R. Trudeau** (BS '70) is senior geologist, special projects for Sun Exploration and Production in Dallas. "A transfer from Corpus Christi to Dallas with Sun took place during early 1983. Working as a senior geologist in the special projects group which is part of the reserve expansion department has been an educational and rewarding task. The project activities allow for gaining valuable experience in evaluating oil and gas production in numerous sandstone and carbonate geological settings throughout the USA.
- Arthur J. Tschoepe** (BS '51) is an independent geologist in Corpus Christi. "Number 6 daughter, Patricia, is now a sophomore at UT."
- Delos R. Tucker** (PhD '62) is a professor at Glendale College and oil explorationist in Glendale, California. "I am still teaching. I'm also developing Texas prospects but it's not nearly so much fun without a retainer. Prospects anyone?"
- John D. Tuohy** (BS '39) is retired and living in Mesa, Arizona. "It's been a year now since we came back to the States, and this retirement bit is no more interesting than it was the other times I've tried it. We've decided to give up on Arizona and are building a house on Canyon Lake (the Guadalupe). It will be nice to be back in Texas.
- Edd R. Turner** (BA '43) is a consultant in Kerrville, Texas. He is an Honorary Life member of the UT Geology Foundation Advisory Council and vice-president of the American Geological Institute.
- John E. Turner** (BS '50) is a consulting partner in Penn, Hills and Turner in Midland. "I am still playing some golf with Dean Leyerly and Robert Porter and working geology on the side.
- John J. Twining** (BS '48, MA '54) is staff paleontologist for Shell Oil Co. in Houston. "Work as usual. I had hoped to be retired by now, but it looks like another year or 2 to go.
- Leroy Jerome Tydlaska** (BA '49, MA '51) is senior geological associate for Amoco Production Co. in New Orleans.
- Katherine A. Tyson** (BA '35, MA '36) is living in Dallas. "Have fallen in love with Dallas."
- Martin S. Ullrich** (BS '74) is an independent geologist living in Houston. "Julie and I have 2 girls now, 3 years and 6 months. I am doing generating and consulting in Texas and Louisiana. I hope to see other grads at football games and the Department barbeque.
- Don Urbanec** (BS '60, MA '62) is a consulting geologist in San Antonio. "I can't say any-
- thing significant in a few words, so I suggest that any of my old classmates who are in San Antonio for any reason, call or come by and visit.
- Robert D. Valerius** (BS '52) is an independent petroleum geologist in Corpus Christi.
- David Wilkes Vernon** (BS '79) is a consulting geologist for Vernon-McCamey in Dallas.
- Charles Vertrees, Jr.** (BS '51) is manager of geology, southeast district for Sun Exploration and Production Co. in Dallas. "I am still in Dallas and still with Sun. Our oldest daughter is in her second year at Baylor and the youngest will be leaving home in the fall for TCU. It looks like the Vertrees tradition at Texas will have to skip a generation.
- Charles D. and Eloise F. Vertrees** (BA '23; BA '22) are retired in Midland. "Celebrated 60 years of marriage April 7, 1984. All members of our immediate family were present at a dinner given by our sons and their families as well as several friends and other relatives in Dallas.
- Harry A. Vest** (MA '59) is Cretaceous project supervisor, in Conoco's Houston division in Houston. "I saw some old friends and profs at AAPG in Dallas and I hope for the same at San Antonio. The domestic oil patch sure is different than international.
- James R. Vettors** (BS '51) is an exploration consultant for Tenneco Oil Co. "Moved to Tenneco's southwest division at San Antonio after 17 years in Houston in July 1983. All children are grown and married. We have 3 grandchildren. We are enjoying the hill country life after Houston's hectic pace by locating out in the country at Boerne."
- R. B. (Bob) Vickers** (BS '47) is a geologist for Mayfair Minerals in Abilene. "I am older and wiser but no richer. I'm staying busy trying to keep up with the world and out of trouble."
- William Vrana** (BA '39) is a consulting petroleum geologist in Corpus Christi. "I am still busy evaluating prospects and occasionally generating new ones.
- Martin James Wachel, Jr.** (BS '56) is superintendent of field production division of joint operations for Getty Oil Co. "I am still continuing to work in Wafra, Kuwait. We enjoyed our round-the-world trip during our annual leave. I enjoy reading the *Newsletter*."
- George P. Walker III** (MA '66) is a consulting petroleum geologist for Walker Exploration Co. in Sattler, Texas. "I relocated out of Houston last fall to improve the quality of life, but consulting work continues unabated. We are constructing an office building and invite visits upon its completion in early fall.
- J. C. Walter, Jr.** (BS '49, MA '51) is president of Walter Oil and Gas Corp. in Houston. "I'm still looking for oil and gas.
- Anthony W. Walton** (MA '68, PhD '72) is an associate professor of geology at the University of Kansas in Lawrence.
- Bernie Ward** (BA '55) is an independent geologist in Tyler, Texas. "I am looking forward to the

- Newsletter.* While well sitting near Gonzales I ran into Skip and Martha 'Rooter' Bybee Mills and their daughter at a local restaurant. We had dinner and fun talking of old Humble times together in Corpus."
- Bill and Kathy Agnew Ward** (BS '55, MA '57; BA '57) Bill is a professor in the earth sciences department at the University of New Orleans. Kathy is a high school science teacher. "Last summer we visited our older daughter and her husband (Peace Corps volunteers) on the island of Siquijar in the southern Philippines. This summer we'll spend in London, where Bill will consult for ERICO. UNO just hired a McBride student for our sedimentary petroleum position."
- Dan L. Ward** (BA '49) is a geological consultant in Grand Junction, Colorado. "I retired from Bendix Field Engineering Corp. in August, and have returned to being a consultant."
- Ralph H. Warner** (MA '61) is a consultant in Humble, Texas. "We are still residing in Humble and surviving. Considering this past year besieged us with tornadoes, hurricanes, second freezes and continued instability in the petroleum business, Marilyn and I are proud to be here. We graduated number 2 son, Brian, from UT in mechanical engineering and Julie will be a sophomore high school cheerleader."
- Karl Warning** (BS '71, MA '77) is a senior geologist for Enserch Exploration in Dallas. "I'm back in Texas after a 7 year absence in Denver and Oklahoma. Reacclimating to Texas heat, insects, drawls, BBQ, sunsets and Mexican food. I'm still working and learning about the Anadarko/Arkoma Basins."
- Lincoln E. Warren** (BS '41) is a consultant in St. Louis, Missouri.
- Joel S. Watkins** (PhD '61) is vice-president of exploration research for Gulf Research and Development Co. in Houston. "It's been an interesting year, what with a new job and then the big merger."
- Bill Watson** (BS '58) is national account representative for NL Sperry-Sun in Sugar Land, Texas. "I have recently been conducting directional drilling and surveying seminars for the industry and various colleges and universities, one of which is UT Austin. I've really enjoyed it."
- John E. Watson** (BA '72) is president of Horizon Gold in Evergreen, Colorado. "It's the middle of May and we still have snow on the ground from Thanksgiving. Otherwise all is well. I'm still managing precious metals exploration program in the western US and the company will go public this summer."
- Joseph D. Watzlavick** (BS '41) is district geologist for Great Western Drilling Co. in Houston. "I enjoy hearing of every one; also enjoying geology more and more, dry holes or near-misses."
- John D. Weaver** (BS '79) is a physician in Austin. "I was graduated by the UT Medical School at Houston on June 2, 1984 with a Doctor's degree in medicine."
- Gerald E. Weber** (BS '64, MA '68) is an engineering and petroleum geologist for Cordilleran Exploration, Inc. "Nothing is new. I am still doing engineering geology and some petroleum exploration in the California coast ranges. I am also teaching the summer field geology class for UC Santa Cruz."
- Albert W. Weeks** (PhD '41) is retired and living in Wynnewood, Pennsylvania.
- Charles Weiner** (BA '48) is chairman of Texas Crude Companies in Houston. "I have resumed (cautiously) my interest in international areas of potentially significant reserves, particularly if there are no front end loads."
- Bonnie R. Weise** (BS '74, MA '79) is senior geologist for Valero Producing Co. in San Antonio. "I recently joined Valero after a stint as a consultant here in San Antonio. The independent life was exciting and rewarding, and it surely did teach me a lot about the nuts and bolts of the industry. But the corporate world has a lot to offer, too, and so I'm enjoying working with Valero's basin assessment group and can do some regional studies, something I couldn't have afforded to do on my own. The past year has been extremely busy for me, as I was heavily involved in preparing for the 1984 AAPG Convention and served as president of the STGS."
- Lloyd C. Wells** (BS '54) is retired and living in Arlington, Virginia. "The first year of retirement has been great. I don't know how I ever found time to work."
- Roger A. Wensel** (MA '75) is district geologist for Woods Petroleum Corp. in Oklahoma City.
- Arthur J. Wessely** (BS '50) is chairman of the board, CEO of Wessely Energy Corp. in Dallas.
- Charles L. West** (BS '52) is an independent geologist in Midland. "Finding oil is still fascinating—it's the dry holes that I can't understand."
- Norman N. West** (BA '50) is owner of Norman West and Associates in Houston. "I am working Texas districts 2, 3, 5, 6 and 7. I am also looking at flying my own planes: Cessna 182 and E-55 Baron—love it."
- John Westmoreland** (BS '59) is president of John Scott Westmoreland Corp. in Waco. "We just completed our 20th year in the hearing aid business representing Beltone Electronics Corp. All is well in Waco."
- David J. White** (BS '41) is a geologist III for the Texas Department of Water Resources in Austin. "I will probably retire this year."
- Hugh G. White** (BA '54, BS '52) is a consulting geologist in Midland. "Another of my boys, Doc, just made Eagle Scout; that's 6 so far. The oil business is picking up. I'm now practicing geoproctology . . . helping those who don't know theirs from a hole in the ground."
- Jane Brite Dunkle White** (BA '46) is a cattle rancher, domatologist and grandmother in Marfa, Texas. "Although I have never been a geologist professionally, I am still delighted to have the training I received at UT that has always enhanced my appreciation of the world in which we live."
- Rex H. White, Jr.** (BS '56, MA '60) is a partner in O'Neill, Hanse and White in Austin. "I am still active in oil and gas law. Many changes are taking place that may not enhance exploration. My family is doing fine, the boys are in high school and have noticed girls. My dear Brenda has gone back to college."
- Robert R. White** (BA '64) is a hydrologist for US Geological Survey, WRD in Albuquerque. "The University of New Mexico Press recently published my book entitled *The Taos Society of Artists*."
- Charles D. Whiteman, Jr.** (BS '58) is a hydrologist for US Geological Survey in Baton Rouge.
- F. L. Whitney** (BS '43) is retired and living in London, Texas. "Everything is going just great. Greetings and best wishes to all."
- Marion Isabelle Whitney** (BA '30, MA '31, PhD '37) is retired and living in Shepherd, Michigan. "I had a paper published entitled 'Eolian Features Shaped by Aerodynamic and Vorticity Processes' in the *JAS Bulletin Eolian Sediments and Processes*. I gave a paper at the GSA meeting in November on the Yardangs of Egypt and in March I gave another paper at the Michigan Academy of Science on 'The Influence of Topography on Eolian Processes and Features'."
- James C. Whitten** (BS '56) is an independent hydrologist in Midland. "I'm still in Midland and business is better than ever. My son, Chris, is a senior in geology at Trinity University in San Antonio. He wants to name our business Whitten and Father."
- W. D. (Dave) Wiggins** (PhD '82) is a geologist of carbonate studies for Gulf Research and Development Co. in Houston. "Awaiting my fate, which is in the hands of SOGULF. Presently I am working with 3 other carbonate types on the diagenesis of Guadalupian dolomites on the Central Basin Platform, Permian Basin."
- William P. (Bill) Wilbert** (MA '63) is an independent geologist in Helotes, Texas. "After projects from Nevada to Alabama, and the obligatory stay in Houston, it is nice to be back on the Cretaceous again."
- Michael A. Wiley** (BS '57, MA '63, PhD '70) is principal research geologist for Arco Oil and Gas Co. in Dallas. "The real news is that I sent this card in for a change. Two full time remote sensing research projects; serving on program committee for the annual 'Remote Sensing for Exploration Geology Symposia' and the National Research Council Committee on 'Practical Applications of Remote Sensing from Space' fill up the time."
- A. B. (Bo) Williams** (BS '53) is retired and living in Sequim, Washington.
- John B. (Jack) Williams** (BS '43) is an independent geologist in Houston. "I am still enjoying geology and the oil business."
- Larry F. Williams** (BS '78) is senior geologist for Pioneer Production Corp. in Houston.

Mark Williams (BS '50) is consulting in Wellington, Texas.

Homer C. Wilson (BS '42) retired from Celanese Chemical Co. May 1, 1983, and is living in Dallas. "with the first year of retirement behind us we recommend it as a new life style. There are ample choices of things to do—when and where one chooses. I am currently serving as a member of the Governor's Task Force on Hazardous Waste Management, a little geology, chemistry and politics all at once."

William Feathergail Wilson (BA '57, BS '60, MA '62) is vice-president of exploration for Placid Oil Co. in Dallas. "The earth is being sliced up for me in many basins and numerous countries. I have become a 'vicarious' geologist."

Wynant S. Wilson (BS '53) is a geologist and engineer for WSW, Inc. in Abilene. "Find oil fast, or in this business you can't last."

W. W. (Bill) Wilson, Jr. (BS '40) is an independent oil operator in Abilene.

Helen P. Withers (BA '40) is a geologist for US Geological Survey in Bethesda, Maryland. "I'm looking forward to seeing (and recognizing?) fellow alumni at this year's AAPG

meeting in San Antonio."

Robert L. Wood, Jr. (BA '56) is president of Occidental Crude Sales in Houston. "There is not much change from last year. The crude market is still soft and over supplied. Our last 2 (twins) are graduating from high school and will be off to college next year. I'm getting older but not sure I'm any better."

Arnold Woods (MA '81) "Having experienced 2½ years of professional and scientific stagnation in Borger, Texas, with no prospects for either change or a transfer, I bid adieu to Phillips Petroleum and I am now looking for a position with a Houston-based company."

Mary Caroline McGonagill Woods (BA '42) is a geologist/editor in chief for *California Geology* magazine in Sacramento, California. "In addition to being editor of *California Geology*, I serve on the Governor's Emergency Task Force on Earthquake Preparedness."

Thomas C. Woodward (PhD '55) is a consulting geologist in Casper, Wyoming. "I have been in Casper since 1955, almost 30 years, a record in the geology business. The Rockies have been good to our family—raised 3 kids, now all grown and gone. I have been independent this time since 1972 doing coal

geology and putting together oil prospects and fighting the Feds."

Charles F. Word (BS '37) is retired and living in Conroe, Texas. "I am still retired. We enjoy traveling and plan a trip to Europe this summer. Golf, hunting, and fishing plus a small lapidary shop occupy most of my time. We enjoy the *Newsletter*—wish more would answer."

Phillip E. (Phil) Wyche (BS '51) Effective February 1, 1984, Phil was elected a senior corporate vice-president of Gulf Oil Corp. In his new assignment he is the chief corporate officer for Gulf's operations in Houston. He continues his participation as a member of the Geology Foundation Advisory Council.

J. R. (Bob) Wynne (BS '57) is an independent geologist in Fort Worth. "It is great being a grandfather. I hope my grandson's a better oil finder than grandpaw."

John C. Yeager (MA '60) is senior explorationist for Inexco Oil Co. in Lafayette, Louisiana.

Robert L. Zinn (BS '52, MA '53) is an independent producer in Houston. "I am still drilling holes in the earth from which, occasionally, flow hydrocarbons: and once in a long while, in commercial quantities."

We are anxious to keep your current address on our mailing list and, therefore, solicit your cooperation in advising us if you move. We attempt to keep our files current by asking the post office to send notices of address changes but this is becoming increasingly expensive. Also, if you know of other alumni who do not receive our letters, please send their names and addresses; we would like to add them to our file.

The Editors